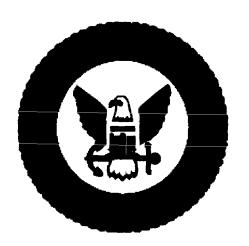




COMPLETION REPORT

INTERIM/STABILIZATION MEASURE FOR SWMU 5, AQC 605 & AQC 621 BATTERY WRECKING/SALVAGE AREA NAVAL BASE CHARLESTON CHARLESTON, SC



Prepared for:

DEPARTMENT OF THE NAVY SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND CHARLESTON SC



Prepared by:

Supervisor of Shipbuilding, Conversion and Repair, USN, (SUPSHIP) Portsmouth Va., Environmental Detachment Charleston, S.C. 1899 North Hobson Ave.
North Charleston, SC 29405-2106

April 10, 1998

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DEPARTMENT OF THE NAVY

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN PORTSMOUTH, VIRGINIA, DETACHMENT ENVIRONMENTAL CHARLESTON 1899 NORTH HOBSON AVENUE, BUILDING 30 NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:

Ser 321 APR 0 9 1998

Mr. G. Randall Thompson, Director Division of Hazardous and Infectious Waste Management Bureau of Solid and Hazardous Waste Management South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, SC 29201

Dear Mr. Thompson,

The enclosed interim measure completion report for Solid Waste Management Unit (SWMU) 5 is submitted to fulfill the requirement of Permit Condition IV.D.6 for Permit Number SCO 170 022 560. If the Department of Health and Environmental Control should have any questions, please contact Reece Batten of Southern Division Naval Facilities Engineering Command (NAVFAC) at (803) 820-5578.

Sincerely,

Æ. R. Dearh Director

Encl:

(1) SWMU 5 Completion Report

Copy to:

SCDHEC (Mr. Tapia & Mr. Bergstrand)

USEPA (Mr. Spariosu)

CSO Naval Base Charleston (LCDR Rose)

NAVFAC (Mr. Batten) EA&H (Ms. Maddux)

COMPLETION REPORT

Interim/Stabilization Measure for SWMU 5, AOC 605 & AOC 621 Charleston Naval Complex, Charleston, SC

Engineering Branch Head:

Date: 4/10/98

Prepared By: Kank Mark

Date: 4/9/98

REPORT GENERATED BY: ENVIRONMENTAL DETACHMENT CHARLESTON

1899 NORTH HOBSON AVENUE NORTH CHARLESTON, SC 29405



COMPLETION REPORT

INTERIM/STABILIZATION MEASURE FOR SWMU 5, AOC 605 & AOC 621 BATTERY WRECKING/SALVAGE AREA NAVAL BASE CHARLESTON CHARLESTON, SC



Prepared for:

DEPARTMENT OF THE NAVY SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND CHARLESTON SC



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Supervisor of Shipbuilding, Conversion and Repair, USN, (SUPSHIP) Portsmouth Va., Environmental Detachment Charleston, S.C. 1899 North Hobson Ave.
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April 10, 1998

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ACRONYMS, ABBREVIATIONS and SYMBOLS

AOC Area of Concern

CMS Corrective Measures Study
COPC Constituent of Potential Concern

DERP Defense Environmental Restoration Program
DET Environmental Detachment Charleston

DON Department of the Navy

IM Interim Measure

IR Installation Restoration

mg/kg milligrams per kilogram (equal to parts per million)

PCB Polychlorinated Biphenyls

ppm Parts Per Million
PT Project Team
PVC Polyvinyl Chloride

RBC Risk Based Concentration

RCRA Resource Conservation and Recovery Act

RFA RCRA Facility Assessment RFI RCRA Facility Investigation

ROC Run of Crusher (crushed aggregate)

SARA Superfund Amendments and Reauthorization Act

SCDHEC South Carolina Department of Health and Environmental

Control

SOUTHDIV Southern Division Naval Facilities Engineering Command SUPSHIP Supervisor of Shipbuilding, Conversion and Repair, USN

SWMU Solid Waste Management Unit

TCLP Toxicity Characteristic Leaching Procedure
USEPA United States Environmental Protection Agency

USN United States Navy

 μ g/kg micrograms per kilogram (equal to parts per billion)

1. INTRODUCTION

- 1.1 INSTALLATION RESTORATION PROGRAM. The purpose of the Department of the Navy (DON) Installation Restoration (IR) Program is to identify, assess, characterize and clean up or control contamination from past hazardous waste disposal operations and hazardous material spills at Navy and Marine Corps activities. The Defense Environmental Restoration Program (DERP) is codified in the Superfund Amendments and Reauthorization Act (SARA) Section 211 (10 USC 2701). The IR Program is a component of DERP.
- 1.1.1 Naval Base Charleston IR Program. At Naval Base Charleston, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) was prepared which divided the Naval Base into zones and identified Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) within each zone. The RFA evaluated each SWMU and AOC and determined which sites required further investigation. Based on the RFA, a RCRA Facility Investigation (RFI) work plan has been or is being prepared for each zone containing SWMUs and AOCs requiring further investigation. On completion of the RFI for each Zone, a RFI report will be prepared for that zone. The RFI reports will identify SWMUs and AOCs containing wastes requiring remediation. Eventually, Corrective Measures Studies (CMSs) will be prepared to determine the best means of remediating each site.
- 1.2 INTERIM MEASURES. Interim Measures (IM) performed as part of the IR Program are intended to eliminate sources of environmental contamination or limit the spread of environmental contaminants prior to the completion of the RFI CMSs.
- 1.3 SOLID WASTE MANAGEMENT UNIT 5 AND AOCs 605 & 621. SWMU 5, AOC 605 and AOC 621, all located in Zone "E", were associated with submarine battery salvaging, restoring and recharging operations including battery wrecking, draining of the acid, neutralization of the acid and processing/storage of salvaged battery materials. Subsequent to battery processing operations, AOC 605 was also used as a waste paint storage area.

SWMU 5 is the former battery electrolyte treatment facility (structure #1797) located on the south side of Pad 1278 and adjacent to dry dock #4. This site operated from 1962 until 1985 and was used to neutralize submarine battery acid. This site consists of two partially subsurface neutralization pits and associated piping.

AOC 605 is a former waste paint storage area adjacent to dry dock 4 on Pad 1278. The 40 feet by 250 feet uncovered concrete pad was constructed in 1943 as a welding area. Beginning in 1987, the pad was used for storage of materials such as paints, used oils, solvents and chemicals. The pad is bordered to the south and west by unpaved areas.

AOC 621 is the former battery wrecking pad associated with the Battery Shop. This site consists of a concrete pad approximately 10' x 10' surrounded by a 1' concrete containment wall with a collection sump and drain piping to the neutralization pits. This battery wrecking pad is constructed on top of Pad 1278 near the southeast corner. This site operated from the early 1950's until the mid 1970's and was used for cracking submarine batteries, draining the acid and recovering the battery casings and lead.

The waste materials associated with SWMU 5 and AOC 621 were generated from batteries. The Constituents of Potential Concern (COPCs) associated with these two sites include solvents, acids and heavy metals (particularly lead).

The waste materials associated with AOC 605 were generated primarily from paints and solvents. The COPCs associated with this site also include solvents, acid and lead as well as petroleum hydrocarbons.

The primary migration pathways at all of these sites are soil and groundwater, both of which were selected for sampling under the Zone "E" RFI Work Plan. Soil contamination to groundwater is expected. Refer to **TABLE A** of Appendix A for a tabulation of all SWMU 5 and AOC 605 RFI soil sample analytical results which exceed the United States Environmental Protection Agency (USEPA) Region III Risk Based Concentration (RBC) Table levels.

Because of the close physical proximity of these three sites, they were grouped for investigative purposes and were also grouped for the purpose of IM remedial actions. Refer to **FIGURE 1** of Appendix B for the location and relationship of these three sites and the RFI soil sample locations.

1.4 SWMU 5, AOC 605 & AOC 621 INTERIM MEASURE. During the interval between the RFI and the completion of the CMS, it was decided by Southern Division Naval Facilities Engineering Command (SOUTHDIV) that an IM would be performed by Supervisor of Shipbuilding, Conversion and Repair (SUPSHIP), United States Navy (USN), Portsmouth Va. Environmental Detachment Charleston (DET). The objective of this IM was to stabilize the site by removing lead contaminated soils from the area around SWMU 5, AOC 605 and AOC 621 until the sampling program indicated with reasonable confidence that the concentration of lead at the site was less than 1300 parts per million (ppm). This was the total lead concentration target level established for this IM based on intended industrial reuse of the site. Groundwater remediation was not an objective of this IM and, as previously stated, no remedial action was intended for the neutralization pits, the wrecking pad or pad 1278 since these structures were not considered sources for hazardous constituents. This IM was consistent with the ultimate cleanup of the site and was not intended to circumvent the public participation process inherent within environmental cleanup under RCRA authority.

The results of investigatory samples taken by the DET indicate that the acid neutralization pits as well as the battery wrecking pad should not be considered as sources for hazardous constituents. Refer to **TABLE B** of Appendix A for a tabulation of sample information, including analytical results. Although no samples were collected by the DET from pad 1278, this pad was also not considered as a source for hazardous constituents since only thoroughly dried paint remains adhered to the pad surface. Consequently, no IM remedial action was intended for the neutralization pits, the wrecking pad or pad 1278.

It should be noted that SWMU 18 is also in the immediate vicinity of the three previously mentioned sites and consists of a former 20' x 20' Polychlorinated Biphenyl (PCB) spill area at the Public Works

Resource Recovery Facility Storage Area. Refer to **FIGURE 2** of Appendix B for the location of SWMU 18. The spill, which occurred in 1987, resulted in the release of approximately 75 gallons of Pyranol fluid to the soil. This site was reported to be completely remediated in Section 2.6.18 of the KEMRON Environmental Services, Inc. RFI Final Report dated September, 1991 and subsequent sample results from the Ensafe/Allen & Hoshall Final Zone E RFI Work Plan dated 2 June, 1995 also indicate PCBs are no longer present. Therefore, no remedial action for PCBs was intended by this IM. However, since SWMU 18 samples taken by EnSafe did reflect elevated concentrations of lead, this area will be included in the excavation. Refer to **TABLE C** of Appendix A for a tabulation of all SWMU 18 RFI soil sample analytical results which exceed RBC Table levels.

2. INTERIM MEASURE EXECUTION

2.1 ACTIONS REQUIRED BY INTERIM MEASURE WORKPLAN.

- 2.1.1 Soil Excavation. The work plan required the excavation of lead contaminated soil from three isolated locations at the site. Based on RFI sampling, these locations contained elevated concentrations of lead (>1300 ppm) at interval 1 (0 to 1 foot deep). These locations are labeled as sample numbers 005SB002, 605SB002 and 018SB004 in FIGURE 1 of Appendix B and were identified as areas to be excavated in FIGURE 2 of Appendix B. Initial excavation at each of these three isolated areas was to consist of removing the top 2 feet of soil from a rectangular area approximately 6 feet by 6 feet. Based on the results of screening samples, the excavations could be expanded up to an area approximately 10 feet by 10 feet by 3 feet deep. The work plan required an engineering evaluation and SOUTHDIV concurrence for any further excavation expansion. All soil excavated from this site was placed in appropriate disposal containers. Based on screening samples and SOUTHDIV concurrence, the final excavation measured approximately 30 feet wide by 70 feet long by 4-1/2 feet deep as discussed in paragraph 2.3.1 of this report.
- **2.1.2 Monitoring Well Abandonment.** Monitoring well 605GW002 existed at SWMU 5 at sample location 605SB002. The work plan required abandonment of this well prior to commencing excavation at the site and fourth quarter groundwater sampling at this well was complete prior to abandonment. Abandonment of this well was completed on March 14, 1997. A copy of the letter nofifying the South Carolina Department of Health and Environmental Control (SCDHEC) of abandonment of this well is included in Appendix E.
- 2.1.3 Flushing of Acid Drain Piping. The work plan required a low pressure, fresh water flush of one 2 inch and one 4 inch, subsurface, polyvinyl chloride (PVC) acid drain line. Refer to FIGURE 2 of Appendix B for the location and routing of this piping. Flushing of these acid drain lines was to continue until a pH value of between 5.0 and 9.0 was obtained at the flushing outlet. All flushing water was to be collected, sampled, characterized and properly disposed. Flushing was completed on March 5, 1997. A copy of the pH test results for the flushing water is included in Appendix E.

- 2.1.4 Removal of Acid Drain Piping. Subsequent to satisfactory flush, the work plan required excavation, removal and proper disposal of a section of the 2 inch piping from the neutralization pit to the southwest perimeter boundary fence along River Road as well as all of the 4 inch piping from the neutralization pit to the wrecking pad. Refer to FIGURE 2 of Appendix B for the location and routing of this piping. Removal of all acid drain piping was completed on March 7, 1997.
- **2.2 OBSERVATIONS NOTED.** No unexpected or unusual circumstances were observed during execution of the work plan.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION.

2.3.1 Volume of Excavated Soil. The volume of soil to be excavated during this project was originally estimated to be between 8 cubic yards (3 rectangular areas, 6 feet x 6 feet x 2 feet deep) and 33 cubic yards (3 rectangular areas, 10 feet x 10 feet x 3 feet deep) as described in Section 4 of the IM work plan. However, in early 1997 it was decided by the Project Team (PT) that initial excavation would consist of removing all of the soil, down to second interval depth (3-5 feet deep), along the northwest side of Building 1435 (up to pad 1278) and across the southwest end of Building 1435 (up to the fence). Refer to **FIGURE 3** of Appendix B for an illustration of the initial excavation boundary.

Subsequent to the initial excavation described in the previous paragraph, several evolutions of additional excavation, followed by additional sampling, were necessary to accomplish the objective of the IM as stated in the opening paragraph of Section 1.4 of this report. The excavation boundary, or portions of it, was expanded a total of four times with a total of five rounds of corresponding investigatory and/or confirmatory sampling. Refer to **FIGURE 4** through **FIGURE 9** of Appendix B for an illustration of the sequence of changes to the excavation boundary and the corresponding sample locations. Appendix F includes photographs taken during excavation operations at the site. The combined total volume of soil excavated from the SWMU 5 site was 1,019,680 pounds (509.84 tons) or 339.89 cubic yards based on 1.5 tons per cubic yard. Refer to **FIGURE 10** of Appendix B

for a 3-D topographic site map of the finished excavation which measured approximately 30 feet wide by 70 feet long by 4-1/2 feet deep.

- **2.3.2** Relocation of Building 1435. Based on unsatisfactory results of first round confirmatory samples collected immediately adjacent to the northwest side of Building 1435, relocation of this building was necessary to facilitate additional investigatory sampling and subsequent additional excavation of soil under the building.
- **2.3.3** Removal and Reinstallation of the Battery Crane. Based on unsatisfactory results of second round confirmatory samples collected immediately adjacent to the northeast side of the battery crane foundation, temporary removal of the battery crane was necessary to facilitate the safe excavation of soil under the battery crane foundation. It should be noted here that four concrete pilings were unearthed during removal of the soil under the battery crane foundation and that these pilings, not the soil, provide all the support for the battery crane. The battery crane was reinstalled after receiving satisfactory results of fifth round confirmatory samples and prior to backfilling of the excavation.
- **2.3.4 Backfilling of the Excavation.** As previously stated, backfilling of the SWMU 5 excavation was not originally intended. However, due to the substantial increase in volume of excavated soil, backfilling became necessary. For informational purposes, the DET requested further analysis of soil from two of the fourth round confirmatory samples to determine the concentration of leachable lead in the soil. The Toxicity Characteristic Leaching Procedure (TCLP) result on the first sample, which had 2150 ppm total lead, was 26.6 ppm. The TCLP result on the second sample, which had 4620 ppm total lead, was 81.1 ppm. Refer to **TABLE B** of Appendix A for a tabulation of sample information, including analytical results. Based on this information, SOUTHDIV requested that a 1 foot layer of soil/lime mix, at a 1/1000 ratio, be spread into the bottom of the excavation prior to filling the excavation with clean fill. This was intended to help precipitate the leachable (soluble) lead out of the soil to further stabilize the site. Based on the total volume of excavated soil reported

in Section 2.3.1 of this report and allowing 25% for compaction, a total of 437 cubic yards of backfill was required for the SWMU 5 excavation.

3.0 INTERIM MEASURE OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK. Following completion of all site work on 13 January 1998, the site was clean and well groomed. The overall general shape and slope of the site remained the same as it was prior to the start of the IM. Monitoring well 605GW002 is no longer present on the southwest end of the excavated area and Building 1435 is no longer present on the southeast side of the excavated area. The battery crane, which was temporarily removed, was restored to its original location. The soil immediately adjacent to pad 1278 is now even with the bottom of the pad, whereas prior to the IM it was several inches below the bottom of the pad. This was done intentionally to allow for some additional compaction and settling. The original surface of the site consisted of weeds growing in Run of Crusher (ROC) and coarse crushed granite. Grass seed was not cast onto the backfilled area.

4. **SAMPLING**

4.1 SAMPLING EVOLUTIONS AND RESULTS

- 4.1.1 Confirmatory Sampling. A total of 72 confirmatory samples were collected by the DET throughout the course of this IM. All of these were soil samples which were collected during excavation operations. Refer to TABLE B of Appendix A for a tabulation of sample information, including analytical results. Refer to Appendix C for copies of the analytical data and the Chain of Custody Records for all samples.
- **4.1.2** Investigatory Sampling. A total of 21 investigatory samples were collected by the DET throughout the course of this IM. Refer to TABLE B of Appendix A for a tabulation of sample information, including analytical results. Refer to Appendix C for copies of the analytical data and the Chain of Custody Records for all samples. The DET investigatory samples include the following:

1 water sample collected from each side of the divided acid neutralization pit and analyzed for total metals and pH (pH test performed by the DET);

1 concrete (pulverized) sample collected from the bottom of the battery wrecking pad which was also analyzed for total metals;

16 first round soil samples collected during excavation operations, following removal of Building 1435, and analyzed for total lead;

2 fourth round soil samples which were further analyzed for leachable lead concentration.

Investigatory sampling was also performed by Ensafe as part of the RFI process prior to the start of this IM. Refer to **TABLE A & TABLE C** of Appendix A for a tabulation of all SWMU 5 & AOC 605 and SWMU 18 RFI soil sample analytical results which exceed the USEPA Region III RBC table levels.

5. WASTE GENERATION

5.1 HAZARDOUS/POTENTIALLY HAZARDOUS WASTE

5.1.1 Hazardous Excavated Soil. Between 31 March 1997 and 15 December 1997, a total of 1,019,680 pounds (509.84 tons) of hazardous lead contaminated soil was transported by Laidlaw Environmental Services of South Carolina, Inc. from the SWMU 5 site to Pinewood Landfill located at Rt. 1, Box 255, Pinewood, South Carolina, 29125 under contract number N62467-97-M-4411. Refer to TABLE D of Appendix A for a tabulation of information regarding transportation/disposal of this waste. Refer to Appendix D for copies of all shipping manifests for this waste.

5.2 NON-HAZARDOUS WASTE

<u>5.2.1 Non-Hazardous Excavated Soil.</u> There was no non-hazardous soil excavated from the SWMU 5 site during this IM.

APPENDIX A

TABLES

	SWN	MU 5 AND A	OC 605 RFI S	SOIL SAMPI	LE RESULTS	S WHICH E	XCEED RBC	TABLE LEV	ELS				
	Arsenic	Beryllium	Iron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a, h) anthracene	N- nitrosopyrrolidine			
SAMPLE	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)												
	1ND. = 3.8 RES. = 0.43	IND = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7.8 RES. = 0.88	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3			
005SB001 INTERVAL 01	4 2	0 32					0.45		0 12				
005SB001 INTERVAL 02	6.1	0.57					0.29						
005SB002 INTERVAL 01	2.1			10,500			0.13						
005SB002 INTERVAL 02	12.7												
005SB003 INTERVAL 01	5 2	0 69		462									
005SB003 INTERVAL 02	4 7	0.52											
		•	•										
605SB001 INTERVAL 01	5.7	0.51					0.16						
605SB002 INTERVAL 01	1.1			1,600									
605SB002 INTERVAL 02	11			1,260									
605SB003 INTERVAL 01	109	0 84				0 92	0.64		0.29				

Shaded blocks represent lead concentrations which are in excess of 1300 ppm.

TABLE A

Sheet 1 of 4

	SWN	AU 5 AND A	OC 605 RFI S	SOIL SAMPI	LE RESULT	S WHICH E	XCEED RBC	TABLE LEV	/ELS				
	Arsenic	Beryllium	Iron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a, h) anthracene	N- nitrosopyrrolidin			
SAMPLE	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)												
	IND. = 3.8 RES. = 0.43	IND. = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7 8 RES. = 0.88	1ND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3			
605SB004 INTERVAL 01	18.6	0 66		-	5.7	4.4	4	2 9	0 86				
605\$B005 INTERVAL 01	7.2	2.2											
605SB005 INTERVAL 02	7.2	0.83					0 92						
605SB006 INTERVAL 01	2.5	0.31					0.17						
605SB006 INTERVAL 02	19	091	25,900										
605SB007 INTERVAL 01	3.2	3.7		1,190			0.10						
605SB008 INTERVAL 01	8.8	0 63		460			0.81		0.30				
605SB008 INTERVAL 02	4 2												
605SB009 INTERVAL 01	3.3	0 64		731			0 17						
605SB009 INTERVAL 02	4.2	0 56											
605SB010 INTERVAL 01	2 3	0 38											

Appendix A, Page A-2

TABLE A

Sheet 2 of 4

	SWN	AU 5 AND A	OC 605 RFI S	SOIL SAMPI	LE RESULTS	S WHICH EX	XCEED RBC	TABLE LEV	/ELS	
	Arsenic	Beryllium	lron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a, h) anthracene	N- nitrosopyrrolidine
SAMPLE			RE	C INDUSTRIAL A	ND RESIDENTIAL	LEVELS IN PARTS	S PER MILLION (PI	PM)		
	IND. = 3.8 RES. = 0.43	IND = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7 8 RES. = 0.88	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3
† 605CB010 INTERVAL 01	7.3	0.45					0.11			0.46
605SB010 INTERVAL 02	5.7	0 49					0.16			
605SB011 INTERVAL 01	1 5	0.94							_	
605SB011 INTERVAL 02	9.3	0 72								
† 605CB011 INTERVAL 02	5.2	0.20					0.11			0 39
‡ 605SB012 INTERVAL 01	14.9	2.8		815			0 14			
† ‡ 605CB012 INTERVAL 01	11.8	2 8		984			0.40		0.11	
‡ 605SB012 INTERVAL 02	6.8	0 49								
‡ 605SB013 INTERVAL 01	4	1		627		1	0.81		0.31	
‡ 605SB014 INTERVAL 01	16.9	0.53				1 2	0.82		0.28	
† ‡ 605CB014 INTERVAL 01	31.4	0.61				0.89	0.85		0.34	

† Duplicate soil samples, ‡ Second round samples

TABLE A

Sheet 3 of 4

	SWM	1U 5 AND A	OC 605 RFI S	SOIL SAMPI	LE RESULTS	S WHICH EX	XCEED RBC	TABLE LEV	VELS			
	Arsenic	Beryllium	Iron	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-ed) pyrene	Dibenz (a, h) anthracene	N- nitrosopyrrolidine		
SAMPLE			RÉ	C INDUSTRIAL A	ND RESIDENTIAL	LEVELS IN PART	S PER MILLION (PI	PM)				
	IND = 3.8 RES. = 0.43	IND = 1.3 RES. = 0.15	IND. = 610,000 RES. = 23,000	IND. = 1300 RES. = 400	IND. = 7.8 RES. = 0.88	IND. = 7.8 RES = 0.88	IND = 0.78 RES. = 0.088	IND. = 7.8 RES. = 0.88	IND. = 0.78 RES. = 0.088	IND. = 2.7 RES. = 0.3		
‡ 605SB014 INTERVAL 02	20 6	0 49					0.25					
‡ 605SB015 INTERVAL 01	1.1	22		1,120			0.30					
‡ 605SB015 INTERVAL 02	10	0.5	101010101011	429			0.79		0.24			
‡ 605SB016				AN	ALYTICAL DATA	NOT YET AVAILA	ABLE					
‡ 605SB017 INTERVAL 01	5 2	0.46					0 16					
‡ 605SB017 INTERVAL 02	5.2	0.48					0.13					
‡ Second round	‡ Second round samples TABLE A Sheet 4 of 4											

		SWMU	J 5 IM SAM	IPLING R	RESULTS				
	SAMPLE I	D	SAMPLE	SAMPLE	SAMPLE		ANALY	SES	
MAP SYMBOL#	SPORT#	DET#	INTERVAL	DATE	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER	
Miscellaneous samples									
N/A	SPORT0074-1	NBCE005Z000100	N/A	06-12-96	I	Water	N/A	Footnote 2	
N/A	SPORT0074-2	NBCE005Z000200	N/A	06-12-96	I	Water	N/A	Footnote 2	
N/A	SPORT0074-3	NBCE005V000100	N/A	06-12-96	I	Concrete	N/A	Footnote 3	
	Fi	rst round samples (c	collected follo	wing compl	etion of initial	excavation))		
1	SPORT0416-1	NBCE005S000402	02	04-11-97	C	Soil	3030		
2	SPORT0416-2	NBCE005S000502	02	04-11-97	С	Soil	5150		
3	SPORT0416-3	NBCE005S000602	02	04-11-97	С	Soil	6750		
4	SPORT0416-4	NBCE005S000702	02	04-11-97	С	Soil	12000		
5	SPORT0416-5	NBCE005S000802	02	04-11-97	С	Soil	4830		
6	SPORT0416-6	NBCE005S000902	02	04-11-97	С	Soil	2610		
7	SPORT0416-7	NBCE005S001002	02	04-11-97	С	Soil	1750		
8	SPORT0416-8	NBCE005S001102	02	04-11-97	С	Soil	1340		
9	SPORT0416-9	NBCE005S001202	02	04-11-97	С	Soil	517		
			TAI	BLE B				Sheet 1 of 8	

		SWMU	J 5 IM SAM	IPLING R	RESULTS			
	SAMPLE I	D	SAMPLE	SAMPLE	SAMPLE		ANALYS	SES
MAP SYMBOL#	SPORT#	DET #	INTERVAL	DATE	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER
10	SPORT0416-10	NBCE005S001302	02	04-11-97	С	Soil	199	-
11	SPORT0416-11	NBCE005S001402	02	04-11-97	С	Soil	2500	
12	SPORT0416-12	NBCE005S001502	02	04-11-97	С	Soil	5140	
13	SPORT0416-13	NBCE005S001602	02	04-14-97	С	Soil	6900	
14	SPORT0416-14	NBCE005S001702	02	04-14-97	С	Soil	1330	
15	SPORT0416-15	NBCE005S001802	02	04-14-97	С	Soil	2070	
16	SPORT0416-16	NBCE005S001902	02	04-14-97	С	Soil	502	
17	SPORT0416-17	NBCE005S002002	02	04-14-97	С	Soil	748	
18	SPORT0416-18	NBCE005S001501	01	04-14-97	С	Soil	10100	
19	SPORT0416-19	NBCE005S001401	01	04-14-97	С	Soil	8240	
20	SPORT0416-20	NBCE005S001601	01	04-14-97	С	Soil	15100	
21	SPORT0416-21	NBCE005S001301	01	04-14-97	С	Soil	6750	
22	SPORT0416-22	NBCE005S000901	01	04-14-97	С	Soi1	11200	
23	SPORT0416-23	NBCE005S001701	01	04-14-97	С	Soil	14200	
			TAI	BLE B				Sheet 2 of

		SWMU	J 5 IM SA M	IPLING F	RESULTS			
	SAMPLE I	D	SAMPLE	SAMPLE	SAMPLE		ANALY	SES
MAP SYMBOL#	SPORT#	DET #	INTERVAL	DATE	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER
24	SPORT0416-24	NBCE005S001001	01	04-14-97	С	Soil	2420	
25	SPORT0416-25	NBCE005S001101	01	04-14-97	С	Soil	36700	
26	SPORT0416-26	NBCE005S001801	01	04-14-97	С	Soil	26900	
27	SPORT0416-27	NBCE005S001201	01	04-14-97	С	Soil	1920	
28	SPORT0416-28	NBCE005S001901	01	04-14-97	С	Soil	1820	
29	SPORT0416-29	NBCE005S002001	01	04-14-97	С	Soil	822	
	Addi	tional first round sa	mples (collect	ed following	g removal of B	Building # 14	435)	
30	SPORT0434-1	NBCE005S002102	02	05-06-97	С	Soil	4680	
31	SPORT0434-2	NBCE005S002202	02	05-06-97	С	Soil	594	
32	SPORT0434-3	NBCE005S002301	01	05-05-97	I	Soil	1460	
33	SPORT0434-4	NBCE005S002401	01	05-05-97	I	Soil	1370	
34	SPORT0434-5	NBCE005S002501	01	05-05-97	I	Soil	1730	
35	SPORT0434-6	NBCE005S002601	01	05-05-97	I	Soil	844	
36	SPORT0434-7	NBCE005S002701	01	05-06-97	I	Soil	4190	
			TAI	BLE B				Sheet 3 of

		SWMU	J 5 IM SAM	IPLING R	RESULTS		_	1		
	SAMPLE I	D	SAMPLE	SAMPLE	SAMPLE		ANALYSES			
MAP SYMBOL#	SPORT#	DET #	INTERVAL	DATE	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER		
37	SPORT0434-8	NBCE005S002801	01	05-06-97	I	Soil	5210			
38	SPORT0434-9	NBCE005S002901	01	05-06-97	I	Soil	71400			
39	SPORT0434-10	NBCE005S003001	01	05-06-97	I	Soil	11500			
40	SPORT0434-11	NBCE005S002302	02	05-05-97	I	Soil	343			
41	SPORT0434-12	NBCE005S002402	02	05-05-97	I	Soil	538			
42	SPORT0434-13	NBCE005S002502	02	05-05-97	I	Soil	209			
43	SPORT0434-14	NBCE005S002602	02	05-05-97	I	Soil	342			
44	SPORT0434-15	NBCE005S002702	02	05-06-97	I	Soil	3790			
45	SPORT0434-16	NBCE005S002802	02	05-06-97	I	Soil	3010			
46	SPORT0434-17	NBCE005S002902	02	05-06-97	I	Soil	8300			
47	SPORT0434-19	NBCE005S003002	02	05-06-97	I	Soil	2230			
Second round samples (collected following additional excavation)										
48	SPORT0456-1	NBCE005S003101	01	06-03-97	С	Soil	1310			
49	SPORT0456-2	NBCE005S003102	02	06-03-97	С	Soil	571			
			TAI	BLE B				Sheet 4 of		

		SWMU	J 5 IM SAM	IPLING R	RESULTS			
	SAMPLE I	D	SAMPLE	SAMPLE	SAMPLE		ANALYSES	
MAP SYMBOL#	SPORT#	DET #	INTERVAL	DATE	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER
50	SPORT0456-3	NBCE005S003201	01	06-03-97	C	Soil	4340	
51	SPORT0456-4	NBCE005S003202	02	06-03-97	С	Soil	258	•
52	SPORT0456-5	NBCE005S003301	01	06-03-97	С	Soil	41700	
53	SPORT0456-6	NBCE005S003302	02	06-03-97	С	Soil	1030	
54	SPORT0456-7	NBCE005S003401	01	06-03-97	С	Soil	20900	
55	SPORT0456-8	NBCE005S003402	02	06-03-97	С	Soil	9250	
56	SPORT0456-9	NBCE005S003501	01	06-03-97	С	Soil	5630	
57	SPORT0456-10	NBCE005S003502	02	06-03-97	С	Soil	6130	
58	SPORT0456-11	NBCE005S003601	01	06-03-97	С	Soil	2890	
59	SPORT0456-12	NBCE005S003602	02	06-03-97	С	Soil	238	
60	SPORT0456-13	NBCE005S003701	01	06-03-97	С	Soil	4330	
61	SPORT0456-15	NBCE005S003702	02	06-03-97	С	Soil	1250	
62	SPORT0456-16	NBCE005S003901	01	06-03-97	С	Soil	337	
63	SPORT0456-17	NBCE005S004001	01	06-03-97	С	Soil	6170	
	•		TAI	BLE B	•	-	_	Sheet 5 of

		SWMU	J 5 IM SAM	IPLING F	RESULTS			
SAMPLE ID			CAMBLE	CAMBLE	SAMPLE		ANALYSES	
MAP SYMBOL #	SPORT #	DET#	SAMPLE INTERVAL	SAMPLE DATE	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER
		Additional second	round sampl	es (collected	l following rai	n delay)		
64	SPORT0465-1	NBCE005S004102	02	06-17-97	С	Soil	195	
65	SPORT0465-2	NBCE005S004101	01	06-17-97	С	Soil	2050	
66	SPORT0465-3	NBCE005S004201	01	06-17-97	С	Soil	533	
67	SPORT0465-4	NBCE005S004301	01	06-17-97	С	Soil	499	
		Third round sam	ples (collected	following a	dditional exca	vation)		
68	SPORT0555-1	NBCE005S004401	01	10-23-97	С	Soil	210	
69	SPORT0555-2	NBCE005S004501	01	10-23-97	С	Soil	1930	
70	SPORT0555-3	NBCE005S004601	01	10-23-97	С	Soil	337	
71	SPORT0555-4	NBCE005S004701	01	10-23-97	С	Soil	898	
72	SPORT0555-5	NBCE005S004702	02	10-23-97	С	Soil	8	
73	SPORT0555-6	NBCE005S004801	01	10-23-97	С	Soil	120	
74	SPORT0555-7	NBCE005S004802	02	10-23-97	С	Soil	1300	
75	SPORT0555-8	NBCE005S004901	01	10-23-97	С	Soil	1840	
			TA	BLE B				Sheet 6 o.

SWMU 5 IM SAMPLING RESULTS											
	SAMPLE ID			SAMPLE	SAMPLE		ANALYSES				
MAP SYMBOL#	SPORT#	DET #	SAMPLE INTERVAL	DATE	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER			
76	SPORT0555-9	NBCE005S005001	01	10-23-97	С	Soil	365				
77	SPORT0555-10	NBCE005S005101	01	10-23-97	С	Soil	306				
78	SPORT0555-11	NBCE005S005201	01	10-23-97	С	Soil	4840				
79	SPORT0555-12	NBCE005S005301	01	10-23-97	С	Soil	2320				
		Fourth round sam	ples (collected	d following	- additional exc	avation)					
80	SPORT0565-1	NBCE005S005401	01	11-10-97	C	Soil	2150				
8 1	SPORT0565-2	NBCE005S005501	01	11-10-97	С	Soil	1630				
82	SPORT0565-3	NBCE005S005601	01	11-10-97	С	Soil	1140				
83	SPORT0565-4	NBCE005S005702	02	11-10-97	С	Soil	1380				
84	SPORT0565-5	NBCE005S005801	01	11-10-97	С	Soil	4620				
Miscellaneous samples											
N/A	SPORT0569-1	NBCE005S005401	01	11-10-97	I	Soil	N/A	Footnote 4			
N/A	SPORT0569-2	NBCE005S005801	01	11-10-97	I	Soil	N/A	Footnote 4			

TABLE B

Sheet 7 of 8

SWMU 5 IM SAMPLING RESULTS											
	SAMPLE ID			SAMPLE	SAMPLE		ANALYSES				
MAP SYMBOL#	SPORT#	DET #	SAMPLE INTERVAL	II I	TYPE (Footnote 1)	MATRIX	TOTAL LEAD (PPM)	OTHER			
	Fifth round samples (collected following additional excavation)										
85	SPORT0576-1	NBCE005S005901	01	11-25-97	С	Soil	1270				
86	SPORT0576-2	NBCE005S006001	01	11-25-97	С	Soil	698				
87	87 SPORT0576-3 NBCE005S006101 01 11-25-97 C Soil 657										
88	SPORT0576-4	NBCE005S006202	02	11-25-97	С	Soil	258				
	TABLE B Sheet 8 of 8										

Footnotes:

- 1) I = Investigatory sample and C = Confirmatory sample.
- These samples were analyzed for total metals and pH and are referred to in Sections 1.3 and 4.1.1 of this report. For analytical results, refer to data sheets in Appendix C which correspond to the SPORT sample ID numbers listed.
- This sample was analyzed for total metals and was referred to in Sections 1.3 and 4.1.1 of this report. For analytical results, refer to data sheets in Appendix C which correspond to the SPORT sample ID number listed.
- These samples were analyzed for leachable lead (TCLP) and are referred to in Sections 2.3.4 and 4.1.1 of this report. For analytical results, refer to data sheets in Appendix C which correspond to the SPORT sample ID numbers listed.

	SWMU 18 SOIL SAMPLE RESULTS WHICH EXCEED RBC TABLE LEVELS												
	Arsenic	Beryllium	Lead	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (a) pyrene	Dibenz (a, h) anthracene	N- nitrosomethyl ethylamine	N- nitroso pyrrolidine	3, 3-Dimethyl benzidine	2- Naphthylamine		
SAMPLE	RBC INDUSTRIAL AND RESIDENTIAL LEVELS IN PARTS PER MILLION (PPM)												
	IND. = 3.8 RES. = 0.43	IND. = 13 RES. = 0.15	IND. = 1300 RES. = 400	IND. = 7.8 RES. = 0.88	IND. = 7.8 RES. = 0.88	IND = 0.78 RES. = 0.088	IND. = 0 78 RES. = 0.088	IND. = 0.26 RES. = 0.029	IND. = 27 RES. = 0.3	IND. = 0 62 RES. = 0.069	IND. = 0 044 RES. = 0.0049		
018SB001 INTERVAL 01	3.5		404		0.91	0 54	0 14			,			
018SB002 INTERVAL 01	3 2												
018SB002 INTERVAL 02	4.7	0.29											
018SB003 INTERVAL 01	6.8	0.43				0.15							
018SB003 INTERVAL 02	8.4	0.86				0 15							
018SB004 INTERVAL 01	6.6	0 47	1,960	0.97	1.6	1	0.30						
018SB005 INTERVAL 01	7.8	0.46	680			0 12							
† 018CB005 INTERVAL 01	7.4	0.46	724					0.70		0.70	0 70		
018SB005 INTERVAL 02	4 8	0.26											
† 018CB005 INTERVAL 02	8	0 31							0.77				

Shaded blocks represent lead concentrations which are in excess of 1300 ppm. † Duplicate soil samples.

TABLE C

Sheet I of I

LAIDLAW HAZARDOUS WASTE 20 CU. YD. ROLL OFF BOXES FROM SWMU 5 WORK SITE

DATE DELIVERED	DATE LOADED	DATE PICKED UP	WORK ORDER#	MANIFEST DOC #	DET HH #	WEIGHT (LBS)	VOLUME (TONS)			
3-31-97	3-31-97	3-31-97	216575	13164	7087HH01	32780	16.39			
4-1-97	4-1-97	4-2-97	216576	13168	7092HH01	27680	13.84			
4-1-97	4-2-97	4-7-97	216577	13177	7092HH02	27680	13.84			
4-1-97	4-2-97	4-7-97	216578	13178	7092HH03	27060	13.53			
4-2-97	4-3-97	4-10-97	216579	13185	7093HH03	26880	13.44			
4-7-97	4-9-97	4-10-97	216580	13186	7099HH01	28040	14.02			
4-7-97	4-9-97	4-10-97	216581	13187	7099НН02	29680	14.84			
4-10-97	4-10-97	4-11-97	216582	13188	7100HH01	24540	12.27			
5-17-97	5-21-97	5-27-97	217277	13200	7141HH01	32980	16.49			
5-17-97	5-21-97	5-27-97	217278	13201	7141HH02	32420	16.21			
5-17-97	5-22-97	5-28-97	217279	13202	7141HH03	30380	15.19			
5-17-97	5-22-97	5-28-97	217280	13203	7141HH04	31620	15.81			
5-27-97	5-28-97	5-29-97	217286	13204	7148HH01	35560	17.78			
5-27-97	5-28-97	5-29-97	217285	13205	7148HH03	32,480	16.24			
	TADIED									

TABLE D

Sheet 1 of 3

LAIDLAW HAZARDOUS WASTE 20 CU. YD. ROLL OFF BOXES FROM SWMU 5 WORK SITE										
—_— F	DATE	DATE	WORK	MANIFEST	DET	WEIGHT	VO			

DATE DELIVERED	DATE LOADED	DATE PICKED UP	WORK ORDER#	MANIFEST DOC #	DET HH #	WEIGHT (LBS)	VOLUME (TONS)			
5-29-97	5-29-97	5-30-97	217287	13206	7149НН01	46,880	23.44			
5-28-97	5-29-97	5-30-97	217288	13207	7149HH02	44,220	22.11			
5-28-97	5-28-97	6-6-97	217698	13216	7148HH02	39,740	19.87			
5-29-97	5-29-97	5-30-97	217290	13209	7149HH03	45,740	22.87			
5-30-97	5-30-97	6-20-97	217920	13217	7150HH01	35,380	17.69			
5-30-97	5-30-97	5-30-97	217289	13208	7150HH02	35,180	17.59			
5-30-97	6-2-97	6-20-97	217921	13218	7153HH01	33,140	16.57			
6-6-97	6-17-97	8-12-97	219557	13229	7167HH02	33,860	16.93			
10-6-97	10-6-97	10-7-97	221279	13236	7279НН01	32,800	16.4			
10-7-97	10-8-97	10-9-97	221280	13237	7281HH01	35,300	17.65			
10-10-97	10-10-97	10-10-97	221281	13239	7283HH01	35,180	17.59			
8-12-97	10-97	10-10-97	221282	13238	7279НН02	34,620	17.31			
10-9-97	10-97	11-6-97	222330	13268	7283HH02	29,040	14.52			
11-6-97	11-97	11-18-97	222779	13276	7311HH01	34,860	17.43			
	TARLER									

TABLE D

Sheet 2 of 3

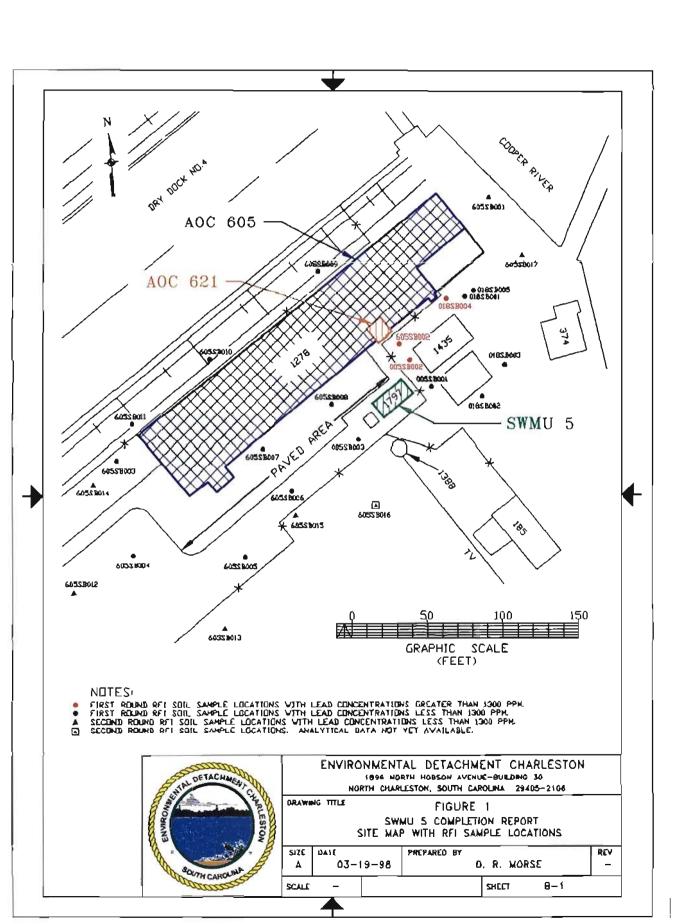
LAIDLAW HAZARDOUS WASTE 20 CU. YD. ROLL OFF BOXES
FROM SWMU 5 WORK SITE

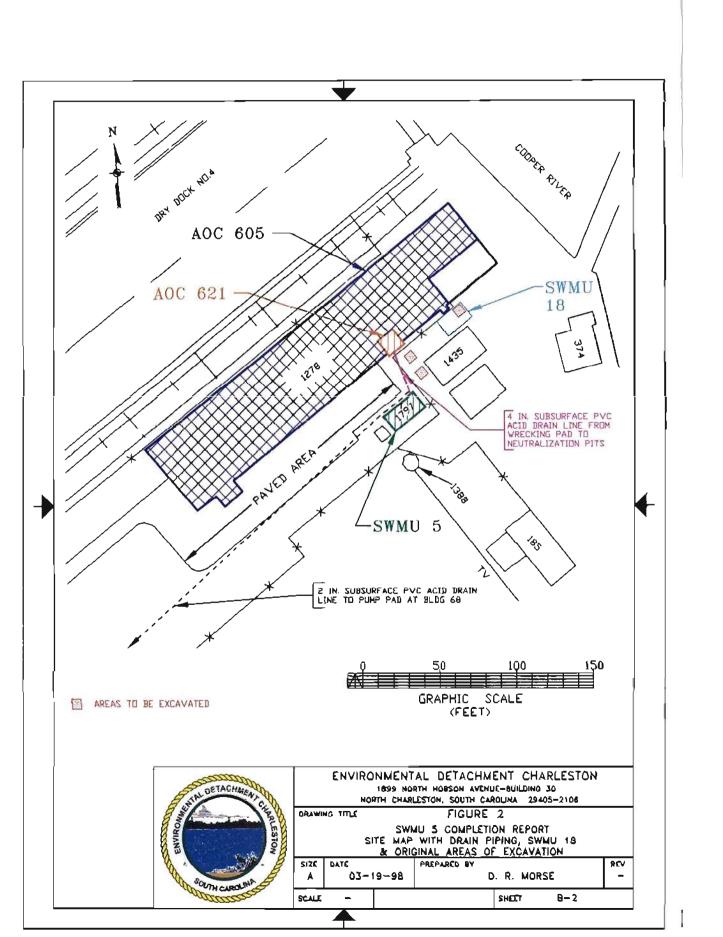
DATE DELIVERED	DATE LOADED	DATE PICKED UP	WORK ORDER #	MANIFEST DOC #	DET HH #	WEIGHT (LBS)	VOLUME (TONS)
10-10-97	11-97	11-20-97	222780	13278	7309HH08	31,160	15.58
11-20-97	11-97	12-15-97	223148	13289	7324HH01	27,660	13.83
11-18-97	11-97	12-15-97	223149	13290	7325HH01	25,140	12.57
					TOTALS	1,019,680	509.84

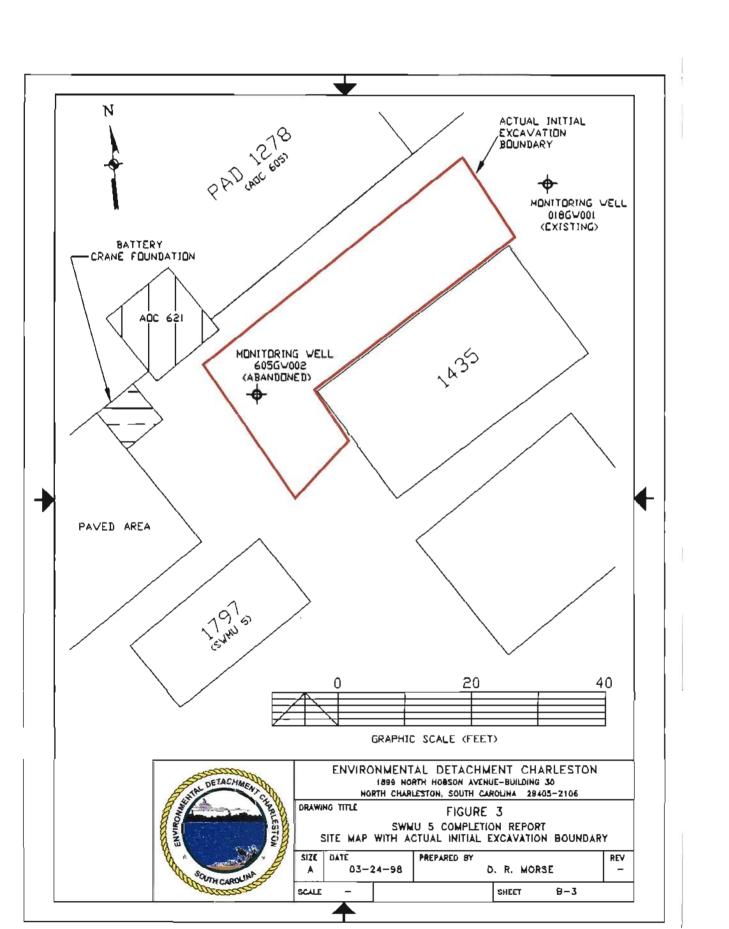
TABLE D

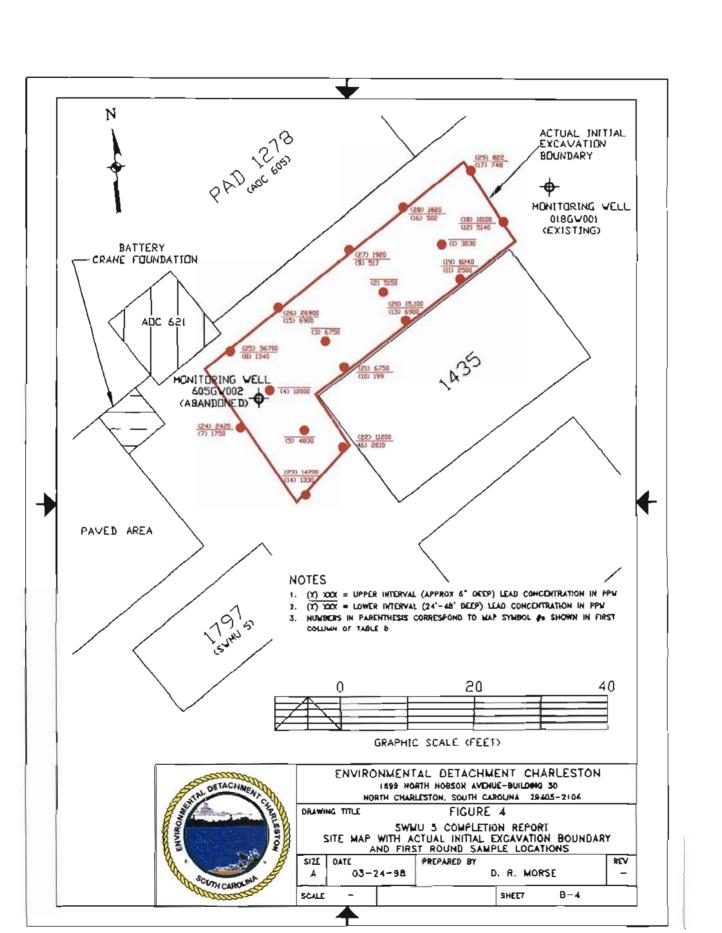
Sheet 3 of 3

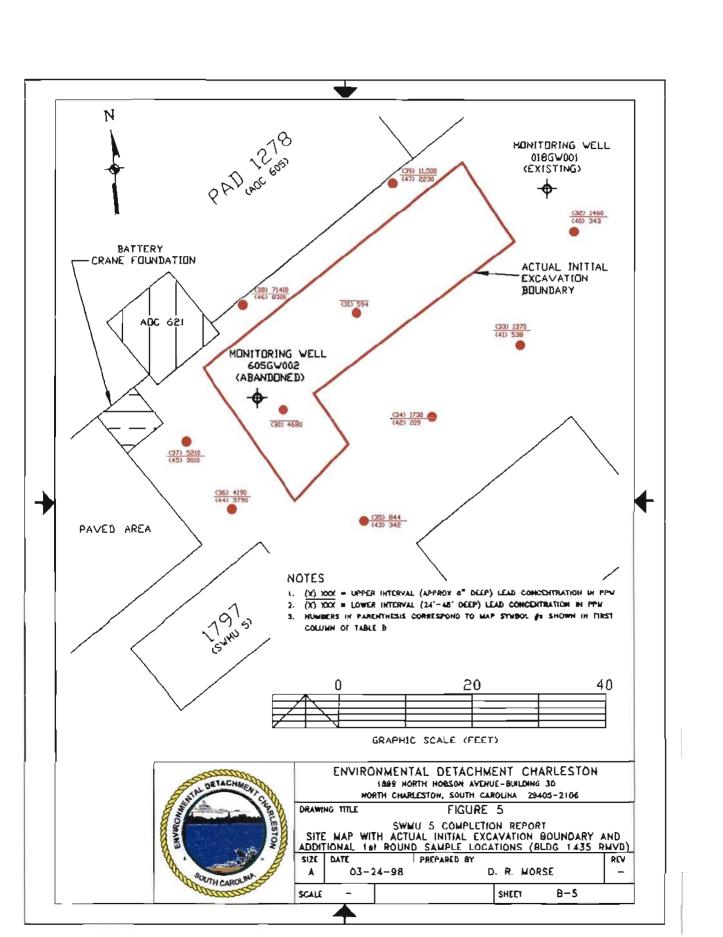
APPENDIX B SITE MAPS

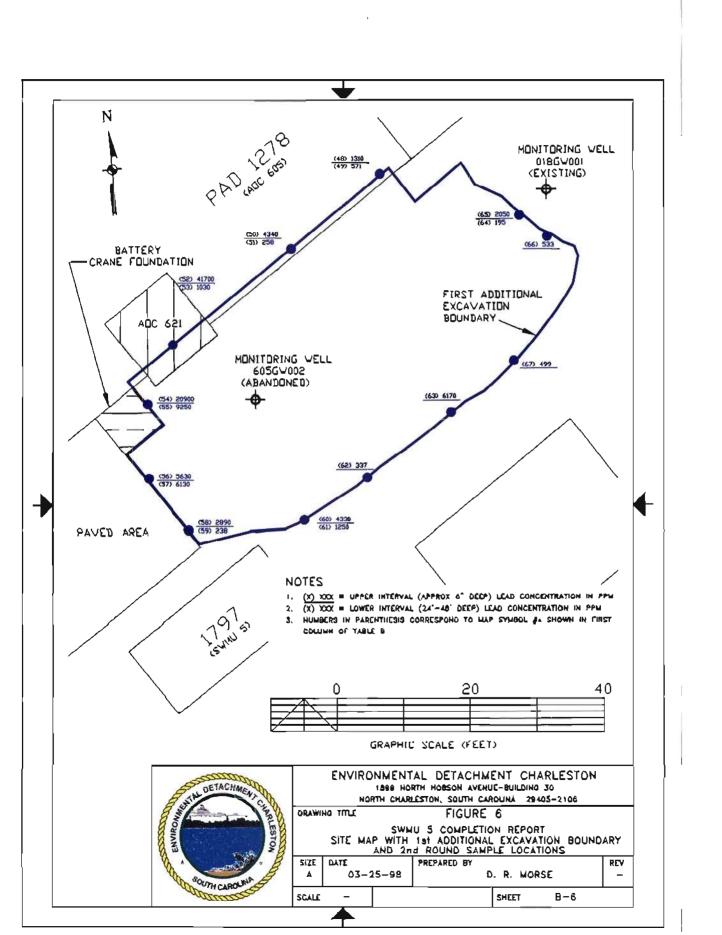


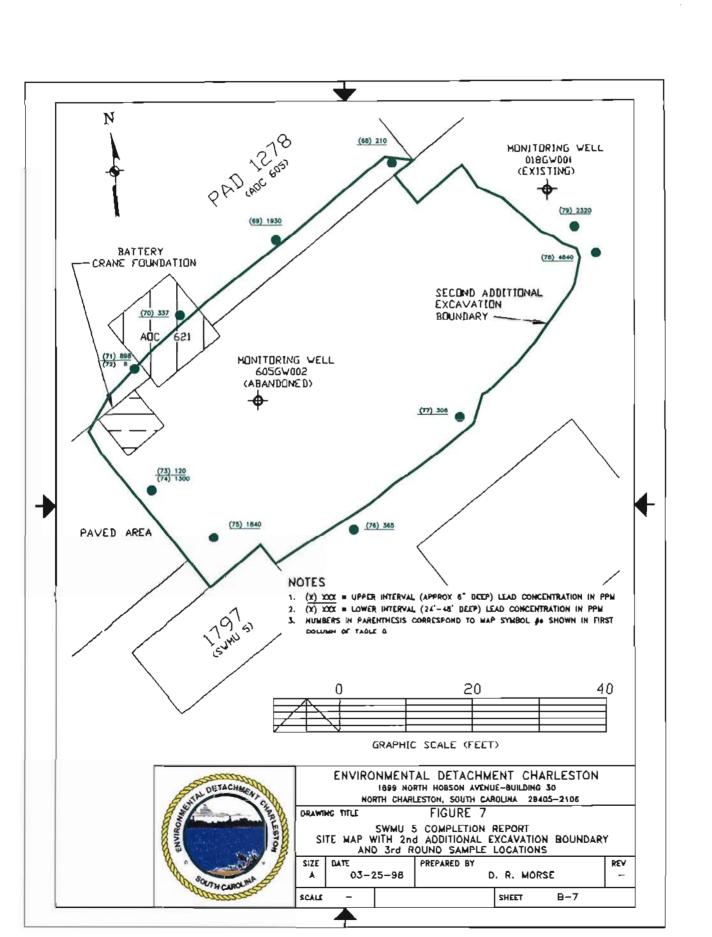


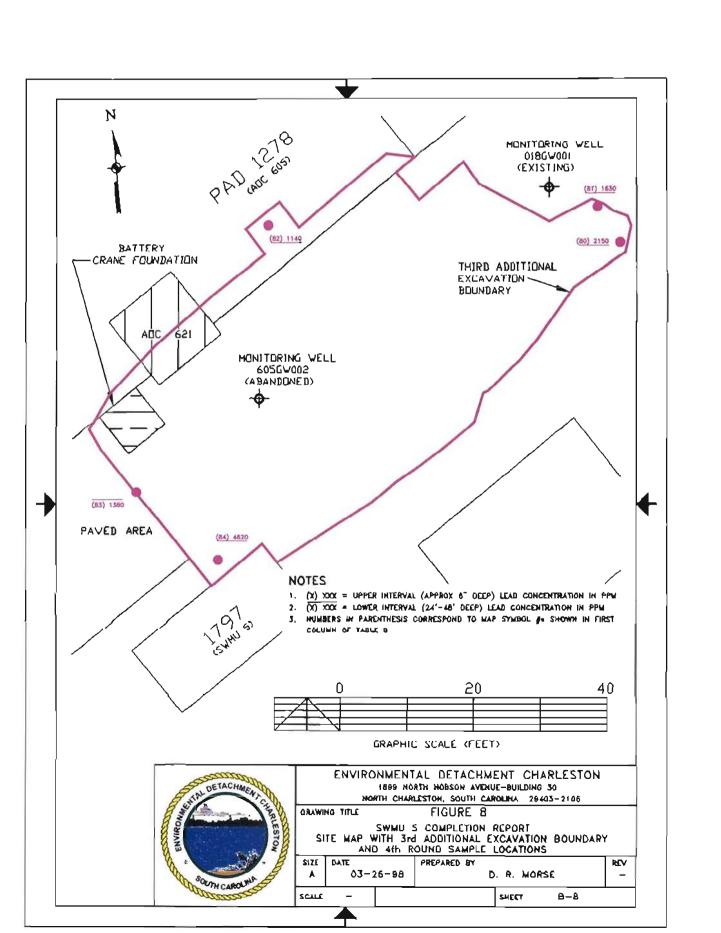


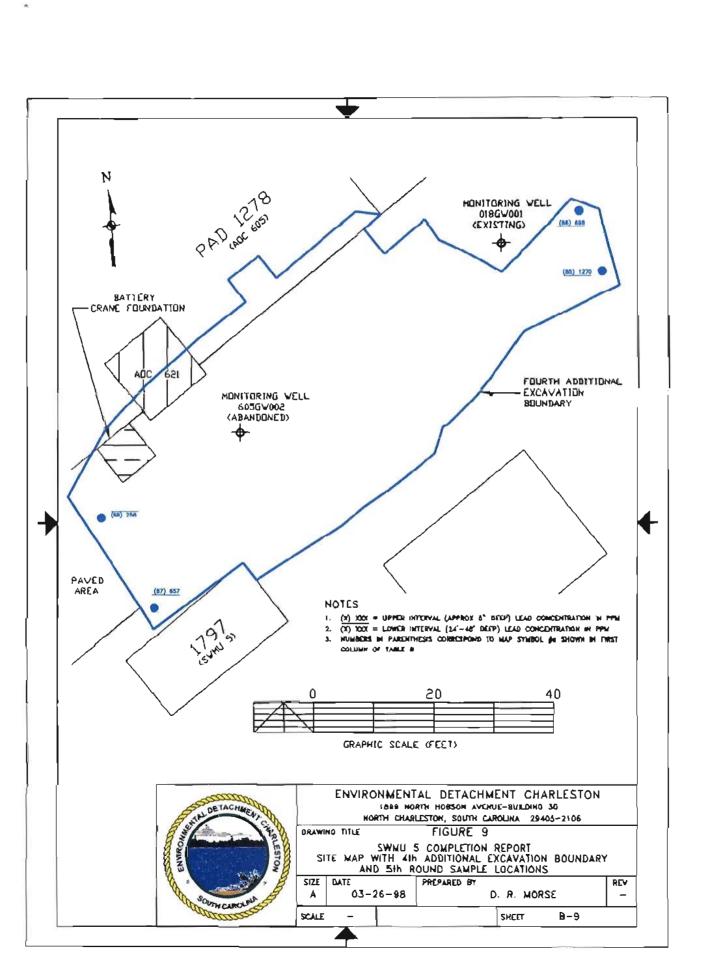


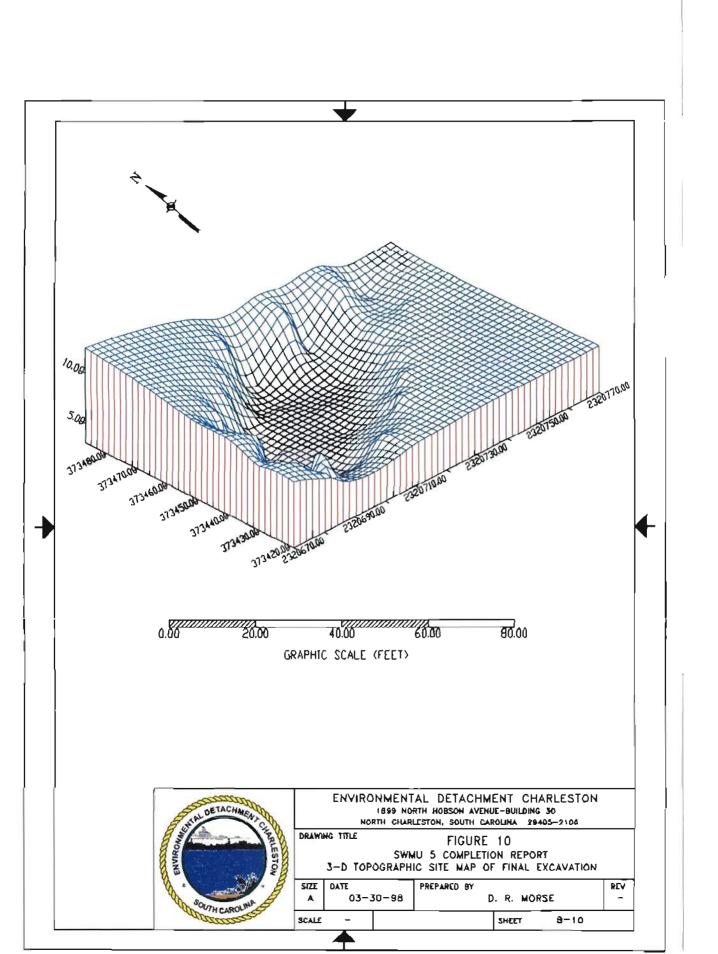












APPENDIX C

SAMPLING DOCUMENTATION

General Engineering 5

(803) 556-8171

tones. Inc.

2040 Savage Road Charleston, South Caron 414 P.O. Box 30712

Charleston, South Carolina 29417

CHAIN OF CUSTODY RECORD

DAY TURNAROUND Client Name/Facility Name Use I or P in the boxes to indicate whether sample was filtered and/or preserved SPORTENVDETCHASN SPORTENVDETCHASN Coliform type Remarks DATE TIME SAMPLE ID SPORT \$416-1 4-11-97 1110 NBCE0055000402 SPORTO416-2 4-11-97 1117 NBCE005500050Z SPORTO416-34-11-97 1121 NBCE005500060Z NBCE005S00D70Z 5PORTO416-44-11-97 1149 NBCE005500080Z SPORT0416-54-11-97 1201 NBCE005S00090Z SFORTO416-6 4-11-97 1212 NBCE0055001002 SPORTO416-7 4-11-97 1223 NRCE005S00110Z SPORTO416-8 A-11-97 1234 SPORTO 416-9 4-11.91 1244 NBCE0055001202 NBCE0055001302 SPORTO416-10 4-11-97 1253 NBCE0055001402 5PORTO 416-11/4-11-97/1301 SPORTO 416-124-11-97 1309 NBCE 005 S001502 NBCE0055001602 5PORTO416-13/4-14-97/11/3 Relinguished by:

CHAIN OF CUSTODY RECORD

Page 2 of 3 DAY TURNAROUND (803) 556-8171 Client Name/Facility Name Use I or P in the boxes to indicate whether sample was filtered and/or preserved SPORTENUDETCHASN Collected by/Company Vitrite/Nitrate SARTENV DETCHASN Coliform . type Remarks SAMPLE ID DATE TIME N8CE0055001702 SPORT 0416-144-14-97 1122 5PORTD416-154-14-97 1130 NBCE0055001802 SPORTO416-164-14-97 1138 NRCE0055001902 SPORT 0416-174-14-97 1147 NRCE 0055002002 SPORTOGILO-18 4-14-97 1203 NBCE0055001501 SADRIDA16-19 4-14-97 1214 NBCE 0055001401 NBCE 005 S00 1601 SPORTO416-2014-14-97 1220 NBCE0055001301 SPORTUALLO 214-14-97 1227 χ NBCE0055000901 SPORTO416-224-14-97 1234-MBCE6055001701 SPORTO416-234-14-97 1240 SADRTOA16-24-4-14-97 1248 NBCEODSSOOIDOI NBCE 805 S00 1101 SARTOUL6-254-14-97 1426 SPORTOLIG-244-14-97 1434 NBCE0055,001801 Date: Time: 4/15/97 /444 / Received by: Relinguished by: 0930 Relinguished by: Received by lab by:

2040 Savage Road Charleston, South Caron 1414 **CHAIN OF CUSTODY RECORD** P.O. Box 30712 Charleston, South Carolina 29117 3 DAY TURNAROUND (803) 556 8171

General Engineering !

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Client Name/Facility Na				$-\tau$	\neg		AMP	I: AN	ALYS	IS RE	QUIR			remail			de soci	the con	noconds	or met	hods		Use For P in the boxes to uidicale whether
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Page 3 of 3



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Laboratory Certifications

STATE GEL E87472/87458 E87156/87294 233 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-1

Matrix

: 9704343-01 : Soil

Date Collected Date Received

: 04/11/97 : 04/15/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF	Analy	yst Date	Time	Batch M
Metals Analysis									
Lead		3030	1.80	4.95 mg/kg	1.0	JSS	04/16/97	1200	100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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Client:

Supervisor of Ship Building & Conversion

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

02934

Sample ID

: SPORT0416-2

Lab ID

: 9704343-02

Matrix

: Soil

Date Collected

: 04/11/97

Date Received

: 04/15/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analy	st Date	Time	Batch	M
Metals Analysis Lead		5150	1.77 4	.85	mg/kg	1.0	JSS	04/16/97	1203	100675	5 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

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Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-3

Marrix

: 9704343-03 : Soil

Date Collected

: 04/11/97

Date Received

: 04/15/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analy	yst Date	Time	Batch ?	1
Metals Analysis	-										
Lead		6750	1.75	4.81	mg/kg	1.0	JSS	04/16/97	1204	100675	1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Result

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Time Batch M

Sample ID Lab ID : SPORT0416-4

Lab ID

: 9704343-04

Matrix

: Soil

Date Collected

: 04/11/97

Date Received

: 04/15/97

Priority

: Rush

Collector

Qualifier

. Client

Parameter

	DI	DI	Limite	DE	Analyst Dat
: Спеп	L				

Metals Analysis

Lead 12000

4.90 mg/kg 1.0 JSS 04/16/97 1207 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

1.78

Notes:

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ND indicates that the analyte was not detected at a concentration greater than the detection limit,

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Contact:

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Project Description:

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Page 1 of 1

Sample ID Lab ID : SPORT0416-5 : 9704343-05

Matrix
Date Collected
Date Received

: Soil : 04/11/97

Priority
Collector

: 04/15/97 : Rush

tor : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		4830	1.78	4.90 mg/kg	1.0 JSS 04/16/97 1209 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-6

Marrix

: 9704343-06

: Soil

Date Collected

: 04/11/97

Date Received Priority

: 04/15/97

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst D	ate Time Batch M
Metals Analysis						
Lead		2610	1.70	4.67 mg/kg	1.0 JSS 04/1	16/97 1213 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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Client:

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

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Report Date: April 17, 1997

Page 1 of 1

02934

Sample ID : SPORT0416-7 Lab ID : 9704343-07 Marrix : Soil Date Collected : 04/11/97 Date Received : 04/15/97 Priority : Rush Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analy	yst Date	Time	Batch	М
Metals Analysis											
Lead		1750	1.78	4.90	mg/kg	1.0	JSS	04/16/97	1215	100675	1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

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STATE GEL E87472/87458 E87156/87294 NC 233

SC 10120 02934

10582 02934

Client:

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North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-8 : 9704343-08

Matrix Date Collected Date Received : Soil : 04/11/97 : 04/15/97

Priority : Rush Collector : Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anal	yst Date	Time	Batch 2	M
Metals Analysis										
Lead		1340	1.72	4.72 mg/kg	1.0	JSS	04/16/97	1217	100675	1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

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 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID : SPORT0416-9 : 9704343-09

Matrix
Date Collected

: 9/04343-09 : Soil

Date Collected
Date Received

: 04/11/97 : 04/15/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date	Time Batch M
Metals Analysis	<u> </u>					-
Lead		517	1.78	4.90 mg/kg	1.0 JSS 04/16/9	7 1218 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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SC TN 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-10

Marrix Date Collected : 9704343-10 : Soil

Date Received

: 04/11/97 : 04/15/97

Priority Collector

: Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analy	yst Date Time	Batch M
Metals Analysis							
Lead		199	1.73	4.76 mg/kg	1.0 JSS	04/16/97 1221	100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

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Laboratory Certifications

STATE GEL E87156/87294 E87472/87458

NC 233 SC 10120

02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-11

Marrix

: 9704343-11 : Soil

Date Collected

: 04/11/97

Date Received

: 04/15/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		2500	1.75	4.81 mg/kg	1.0 JSS 04/16/97 1228 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

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North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-12 : 9704343-12

Matrix Date Collected Date Received

: Soil : 04/11/97 : 04/15/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Anal	yst Date	Time	Batch	м
Metals Analysis											
Lead		5140	1.73	4.76	mg/kg	1.0	JSS	04/16/97	1230	100675	1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

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10582 10120 02934 02934

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-13

: 9704343-13 : Soil

Matrix Date Collected

: 04/14/97 : 04/15/97

Date Received Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Ana	yst Date	Time	Batch M	[
Metals Analysis										
Lead		6900	1.72	4.72 mg/kg	1.0	JSS	04/16/97	1232	100675 1	Į

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Laboratory Certifications

STATE GEL E87156/87294 E87472/87458 FL NC SC TN 233

10120 02934 10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-14 : 9704343-14

Matrix

Date Collected

: Soil

: 04/14/97

Date Received

: 04/15/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analy	yst Date	Time	Batch M
Metals Analysis								
Lead		1330	1.75	4.81 mg/kg	1.0 JSS	04/16/97	1234	100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

anodole Cu

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID : SPORT0416-15 : 9704343-15

: Soil

Matrix
Date Collected

: 04/14/97 : 04/15/97

Date Received Priority Collector

: Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anai	yst Date	Time	Batch M
Metals Analysis									
Lead		2070	1.73	4.76 mg/kg	1.0	JSS	04/16/97	1236	100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Mr. Bill Hiers

Project Description:

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Page 1 of 1

Sample ID Lab ID

: SPORT0416-16 : 9704343-16

Marrix

: Soil

Date Collected

: 04/14/97

Date Received

: 04/15/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis Lead		502	1.73	4.76 mg/kg	1.0 JSS 04/16/97 1238 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

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Report Date: April 17, 1997

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Sample ID Lab ID

: SPORT0416-17

Matrix Date Collected : 9704343-17 : Soil

Date Received

: 04/14/97 : 04/15/97

Priority Collector

: Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis Lead		748	1.72	4.72 ma/ka	1.0 JSS 04/16/97 1240 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Contact:

Mr. Bill Hiers

Project Description:

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c: NPWC00197

Report Date: April 17, 1997

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Sample ID Lab ID

: SPORT0416-18 : 9704343-18

Matrix

: Soil

Date Collected Date Received : 04/14/97

: 04/15/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis Lead		10100	1.75	4.81 mg/kg	1.0 JSS 04/16/97 1242 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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 02934
 02934

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Mr. Bill Hiers

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Sample ID Lab ID : SPORT0416-19

: 9704343-19

Matrix

: Soil

Date Collected
Date Received

: 04/14/97 : 04/15/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		824 0	1.70	4.67 mg/kg	1.0 JSS 04/16/97 1244 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

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Sample ID Lab ID Matrix Date Collected : SPORT0416-20 : 9704343-20 : Soil

Date Received Priority Collector

: 04/14/97 : 04/15/97 : Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		15100	1.77	4.85 mg/kg	1.0 JSS 04/16/97 1246 100675 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1430 100675 2

M = Method	Method-Description	_
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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Page 1 of 1

Sample ID Lab ID

: SPORT0416-21

Matrix

: 9704343-21

Date Collected

: Soil : 04/14/97

Date Received

: 04/15/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Analy	st Date	Time	Batch M
Metals Analysis									
Lead		6750	1.73	4.76 mg/kg	1.0	ISS	04/16/97	1328	100676 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Mr. Bill Hiers

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Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-22

Matrix

: 9704343-22

Date Collected Date Received

: 04/14/97 : 04/15/97

Priority Collector

: Rush : Client

: Soil

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					

The following prep procedures were performed: ICP

FGD 04/15/97 1500 100676 2

1.0 JSS 04/16/97 1330 100676 1

M = Method	Method-Description	
M 1	EPA 6010A	_
M 2	EPA 3050	

1.72

4.72 mg/kg

Notes:

Lead

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

11200

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Contact:

Mr. Bill Hiers

Project Description:

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Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-23

: 9704343-23

Matrix Date Collected : Soil : 04/14/97

Date Received Priority

: 04/15/97 : Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metais Analysis					
Lead		14200	1.73	4.76 mg/kg	1.0 JSS 04/16/97 1332 100676 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

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Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

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Report Date: April 17, 1997

Page 1 of 1

02934

Sample ID Lab ID

: SPORT0416-24

Marrix

: 9704343-24

: Soil

Date Collected

: 04/14/97

Date Received

: 04/15/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analys	st Date Tim	e Batch M
Metais Analysis							
Lead		2420	1.72	4.72 mg/kg	1.0 JSS	04/16/97 1341	100676 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Time Batch M

Sample ID Lab ID

: SPORT0416-25 : 9704343-25

Marrix Date Collected : Soil

Date Received

: 04/14/97

: 04/15/97

Priority Collector

Qualifier

: Rush : Client

Parameter		
Metals Analysis		

Mierarz	Allarysis	
Lead		

36700

Result

1.78 4.90 mg/kg

RL Units

DF

04/16/97 1342 100676 1

Analyst Date

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description	
	EPA 6010A	
M 2	EPA 3050	

DL

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-26 : 9704343-26

Matrix Date Collected Date Received

: Soil : 04/14/97 : 04/15/97

Priority Collector

: Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis Lead		26900	1.72	4.72 mg/kg	1.0 JSS 04/16/97 1345 100676 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

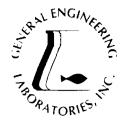
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Client:

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Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Time Batch M

02934

Sample ID Lab ID

: SPORT0416-27

Matrix

: 9704343-27

: Soil

Date Collected

: 04/14/97

Date Received

: 04/15/97

Priority Collector

Qualifier

: Rush

: Client

RL Units

Metals	Analysis
Lead	

Parameter

1920

Result

1.73 4.76 mg/kg 1.0 JSS 04/16/97 1347 100676 1

DF Analyst Date

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

DL

Notes:

The qualifiers in this report are defined as follows:

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Client:

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Contact:

Mr. Bill Hiers

Project Description:

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Report Date: April 17, 1997

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Sample ID Lab ID

: SPORT0416-28

Matrix

: 9704343-28

Date Collected Date Received

: Soil : 04/14/97

Priority

: 04/15/97

Collector

: Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis			. 70	4.50	
Lead		1820	1.73	4.76 mg/kg	1.0 JSS 04/16/97 1350 100676

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

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U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Blokene



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Laboratory Certifications

STATE GEL E87472/87458 E87156/87294 FL NC

233 10582 SC 10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 17, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0416-29

Matrix

: 9704343-29

Date Collected

: Soil : 04/14/97

Date Received

: 04/15/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		822	1.75	4.81 mg/kg	1.0 JSS 04/16/97 1407 100676 1

The following prep procedures were performed:

ICP

FGD 04/15/97 1500 100676 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Charleston, South Caron

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P.O. Box 30712 Charleston, South Carolina 29417

CHAIN OF CUSTODY RECORD

Page / of Z TURNAROUND (803) 556-8171 Client Name/Facility Name Use F or P in the boxes to indicate whether sample was filtered and/or preserved CHASN SHARTSHYDET Extractables Collected by/Company Fotal Phenol SPORTENIADET CHASI Cyanide TOX Z. TIME Remarks SAMPLE ID DATE SPORTO434-15/6/97 1045 N&CE0055002102 SART0434-2 5/6/97 1030 NBCE005500ZZ0Z SARTO434-35/5/97 1330 NBCE0055002301 SPORT 0434-45/5/97 NBCE 0055002401 SARTO434-5 5/5/27 1405 NECE 00 55 002 50 1 SPORTO434-6 5/5/97 1428 NBCE005500 Z601 SARTOLISA-75/6/97 0855 NBCE 00 55002701 SPORTON30-8 5/6/970912 NBCE0055002801 SBET0434-95/6/970932 NBCE 0055 002901 50RT0434-10 5/6/97 1000 NBCE6055 003001 SART0434-11 5/5/97 1346 NBCE 0055002302 5RPT0134-12 5/5/97 1400 NBCE005500Z40Z SPORTO434-13 5/5/77 1415 NBCE0055002502 Received by: Relinguished by: 1144 5/6/97 Relinquished by:

CHAIN OF CUSTODY RECORD

2040 Savage Road Charleston, South Caro 1414 P.O. Box 30712 Charleston, South Carolina 29417 - 3 DAY TURN AROUND -(803) 556-8171

General Engineering

ories, Inc.

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Relinquished by:		Døte:	Time	::	Rece	eived b	y lab i	hy:		10	<i>'</i>		Date	:	Tim	e:	Rem	arks:	10	<i>,</i> -	•	-	

Page Z of Z



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Laboratory Cartificatio

STATE GEL EPI EB1472/87451 FL NC SC E \$71 56/87294 233 10582 10120 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT 0434-1

LabID

: 9705129-01

Marrix

: Soil

Date Collected

: 05/06/97

Data Received

: 05/06/97

Priority

: Rush

Callecter

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anat	yst Date	Time	Batch	M
Metais Analysis		4400		440		~~~			10.506	
Load		4680	1.82	5.00 mg/kg	1.0	122	05/08/97	1551	101796	1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakency at (803) 769-7386.

Delakery

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9705129-01

indicates that a quality commol analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrany.

Laboratory Certifications

EP4 E87472/87458 STATE GEL EST15G87294

10582 M2934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0434-2

: 9705129-02

Matrix

: Soil

Data Collected

: 05/06/97

Date Received

: 05/06/91

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anal	yst Date	Time	Batch M	_
Metals Analysis Lead		594	1.82	5.00 mg/kg	1.0	JSS	05/08/97	1345	101796 1	

The following prep procedures were performed:

KP

FGD 05/08/97 1400 101796 2

M = Method	Method-De	ecription
M1	EPA 6010	A
M 2	EPA 3050	

Nome:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of malyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

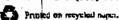
U indicates that the analyte was not detected at a concentration greater than the detection limit.

LET: 802-825-2815

This data report has been prepared and reviewed in accordance with General Engineering Luboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Cartiflostions

STATE CILL. EFI E87472/87458 BB7156/87294 10582

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portamouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Higgs

Project Description:

SUPSHIP-Portsmouth Detechment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-3

Lab ID

: 9705129-03

Matrix

: Soil

Date Collected

: 05/05/91

Data Received

Priority

: 05/06/97

: Rush

Collector

: Client

Parameter	Qualifler	Remit	DL	RL Units	DF	Anai	yst Date	Time	Batch	М
Metals Analysis Lead		1460	1.82	5.00 mg/kg	1.0	122	05/08/97	1346	101796	1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of snalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

LET: 802-825-2815

* indicates that a quality control enalyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakensy at (803) 769-7386.

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STATE CEL EP1 E87472/87458 E87156/87294 233 10582 10120 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detechment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT434-4 : 9705129-04

Matrix

Date Collected

: Soil

: 05/05/97

Date Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Analyst Date Time Batch M	[
Metals Anniysis Lead		1370	1.82	5.00 mg/kg	1.0	JSS 05/08/97 1348 101796 1	l

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-De	cription
M 1	EPA 6010.	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

LET:802-825-2815

J indicates presence of enalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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^{*} indicates that a quality control enalyte recovery is outside of specified acceptance criteria.



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Laboratory Curtification

STATE GEL E87472/87458 B87156/67294 FL NC

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Deutchment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID Lab ID

: 5PORT434-5

: 9705129-05

Matrix

: Soil

Date Collected

: 05/05/97

Data Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Anai	yst Date	Time	Betch	M
Metals Analysis Lead		1730	1.82	5.00	mg/kg	1.0	ISS	05/08/97	1351	101796	5 1

The following prep procedures were performed:

ICP

FOD 05/08/97 1400 101796 2

M = Method	Method-De	cription
M 1	EPA 6010.	1
M 2	EPA 3050	

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

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***9705**129-05*

Indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL EFI FL E871.56/87294 BE7472/87458 NC 213 SC 10120 10582 TN 02514 02594

Chient:

Supervisor of Ship Building & Cunversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-6

Lab ID

: 9705129-06

Matrix

. ,

D--- C-11----

: Soil

Date Collected

: 05/05/97

Data Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analy	st Date	Time	Batch M	A
Motals Analysis Load		844	1.82	5.00 mg/kg	1.0 JSS	05/08/97	1353	101796	ı

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the enalyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyze at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakency at (803) 769-7386.

Reviewed By

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9705129-06



^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow.

Laboratory Cartifications

STATE GEL. EPI 1917472/117451 817156/17294 10582 02934 10120 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: May 09, 1997

Page 1 of i

Sample ID اللها العالم

: SPORT434-7

Matrix

: 9705129-07

: Soil

Date Collected Date Received

: 05/06/97

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF An	alyst Date T	lime l	Batch M
Metals Analysis Load		4190	1.82	5.00 mg/kg	1.0 JS	S 05 /08/97 1	355 1	101796 1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit,

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Pleme direct any questions to your Project Manager, Karen Blakensy at (803) 769-7386.

Blakens

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^{*} indicates that a quality control analyse recovery is outside of specified acceptance criteria.



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Laboratory Cortific

STATE GEL EFT EFT 472/117451 FLOCK E87156/87294 233 100 20 10582 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-8

Lab ID

: 9705129-08

Matrix

: Soil

Date Collected

Date Received

: 05/06/97

Priority

: 05/06/97 : Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Anal	yst Date	Time	Batch	M
Metals Analysis Lead		5210	1.82	5.00	mg/kg	1.0	JSS	05/08/97	1423	101796	5 1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

- J indicates presentes of enalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
- U indicates that the enalyte was not detected at a concentration greater than the detection limit.
- indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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STATE Œ E87472/87458 E87156/87294 NC 10582

SC 10120 02934 02734

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Habson Ava.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detechment

œ: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID Lab ID

Matrix

: SPORT434-9 : 9705129-09

Date Collected

: Soil

: 05/06/97

Date Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anal	yst Date	Time	Batch 1	M
Metals Analysis Lead		71400	1.82	5.00 mg/kg	1.0	JSS	05/08/97	1427	101796	1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories sundard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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9705129-09



indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow.

STATE GEL PET 472/67451 E87156/87294 10512 02934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-10

DL

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: 9705129-10

Marrix

: Soil

Date Collected

: 05/06/97

Date Received

Priority

: 05/06/97

Collector

Qualifler

: Rush : Client

Paran	leter	
Metals	Anaivels	

1.0 JSS 05/08/97 1431 101796 1

DF Analyst Date

Time Butch M

11500

Remit

1.82 5.00 mg/kg

RL

Units

The following prep procedures were performed:

ICP

Lead

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

arry questions to your Project Manager, Karen Blakency at (803) 769-7386.

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9705129-10

indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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STATE GEL FL NC SC EB7472/87458 E87156/87294

233 10120 02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portemouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-11

الله اللها

: 9705129-11

Marrix

: Soil

Date Collected

: 05/05/97

Date Received

: 05/06/97

Priority

: Rosh

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Tim	e Batch M
Metals Analysis						
Lead		343	1.82	5.00 mg/kg	1.0 JSS 05/08/97 143	5 101796 1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyse was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the malyte was not detected at a concentration greater than the detection limit.

This dam seport has been propered and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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9705129-11

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indicates that a quality control maly a recovery is outside of specifical acceptance criteria.



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Laboratory Certifica

CEL, IIPI E87472/87458 STATE E87156/87294 FL. NC 233 10582 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleson, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portemouth Detachment

oc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT434-12

Matrix

: 9705129-12

: Soil

Date Collected

: 05/05/97

Data Received

: 05/06/97

Priority

: Rush

Collector

: Client

Purameter	Qualifier	Result	DL	RL Units	DF Anal	yst Date	Time	Batch M
Metals Analysis Lead		538	1.82	5.00 mg/kg	1.0 JSS	05/08/97	1440	101796 1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Des	eription
MI	EPA 6010	1
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratorics standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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+9705129-12+

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Meeting today's needs with a vision for tomorrow.

Laboratory Cartifications

STATE GEL FL 8271 NC 213 SC 1012 EFT E47472/87458 EX7156/87294

10120 10582

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

œ: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-13

Lab ID

: 9705129-13

Marrix

: Soil

Date Collected

: 05/05/97

Data Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Ans	lyst Date	Time	Batch	M
Metals Analysis Lead		209	1.82	5.00 mg/kg	1.0 JS\$	05/08/97	1444	101796	1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of snalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the smalyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories. standard operating procedures. Please direct any questions to your Project Managar, Karen Blakeney at (803) 769-7386.

on Blakene

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Laboratory Cartifications

STATE GEL KPI E57472/87458 E87156/87294 233

10582 02834

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portamouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

cc: NPWC00197

SUPSHIP-Portamouth Detachment

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-14

Lab ID Matrix

: 9705129-14

: Soil

Date Collected

: 05/05/97

Date Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Analyst Date	Time	Betch M
Metals Analysis Load		342	1.82	5.00 mg/kg	1.0	JSS 05/08/97	1448	101796 1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-De	cription
M 1 M 2	EPA 6010. EPA 3050	

Nates:

The qualifiers in this report are defined as follows:

ND indicates that the malyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyse was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakency at (803) 769-7386.

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Laboratory Cartifications STATE GEL

FL NC 9C E\$7156/87294 E17472/27451

10120

10582 02934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portamouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID Leb ID

: SPORT434-15

: 9705129-15

Matrix

: Soil

Date Collected

: 05/06/97

Date Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Remit	DL	RL Unit	s DF	Analy	t Date	Time	Batch 1	M
Metals Analysis Lead		3790	1.82	5.00 mg/kg	g 1.0	122	05/08/97	1452	101796	1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-De	cription
M 1	EPA 6010	A
M 2	EPA 3050	

Notes:

The qualiflers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance enterior.

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9705129-15



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Laboratory Cortifications

GEL E87156/17204 EP1 E87472/87458 FL NC SC TN

10120

ŧ

10582

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT434-16

Matrix

: 9705129-16

Date Collected

: Soil

: 05/06/97

Date Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	QueШer	Result	DL	RL Units	DF	Analyst Date	Time	liateli M
Metals Analysis Lead		3010	1.82	5.00 mg/kg	1.0	JSS 05/08/97	1456	101796 1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Da	cription
Mı	EPA 6010.	1
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the enalyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories sundard operating procedures. Please direct

any questions to your Project Manager, Karen Blakency at (803) 769-7386.

eneral Elakens

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Laboratory Certifications

STATE GEL E87472/87458 E87156/87294 NC SC TN 233 105**82** 02934 10120

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Descripcion:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample IID

: SPORT434-17

: 9705129-17

Lub ID Matrix

: Soil

Data Collected

: 05/06/97

Data Received

: 05/06/91

Priority

: Rush

Collector

: Client

Parameter	Qualifler	Result	DL	RL Units	DF Anal	yst Date	Time	Batch M
Metals Analysis Lead		8300	1.82	5.00 mg/kg	1.0 ISS	05/08/97	1500	101 79 € 1

The following pres procedures were performed:

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presente of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the snalyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been propered and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakency at (803) 769-7386.

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Laboratory Certifications

STATE CEL ЕЙ FL NC SC E17156/87294 E27472/87458 213 10582

10120 02934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Rill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

oc: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

02934

Sample ID LabID

: SPORT434-18

Matrix

: 9705129-18

: Soil

Date Collected

Data Received

: 05/06/97

: 05/06/97

Priority Collector : Rush : Client

Parameter	Qualifler	Result	DL	RL Units	DF An	alyst Date	Time	Batch M	
Metais Analysis									
Lead		9490	1.82	5.00 mg/kg	1.0 JSS	05/08/97	7 1554	101796 1	

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct.

any questions to your Project Manager, Karen Blakency at (803) 769-7386.

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indicates that a quality control enalyte recovery is outside of specific acceptance criteria.



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Laboratory Cartifications

STATE GEL EFI
FL E87156A7294 E87472/87458
NC 231
SC 10120 10582
TN 02994 02994

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portamouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: May 09, 1997

Page 1 of 1

Sample ID

: SPORT434-19

Lab ID

: 9705129-19

Matrix

: Soil

Date Collected

: 05/06/97

Date Received

: 05/06/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Butch M
Metals Analysis Lead		2230	1.82	5.00 mg/kg	1.0 JSS 05/08/97 1556 101796 1

The following prep procedures were performed:

ICP

FGD 05/08/97 1400 101796 2

M = Method	Mathod-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyse was not detected at a concentration greater than the detection limit.

J indicates presence of analyse at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the straigte was not detected at a concentration greates than the detection limit.

This dam report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Kouen Blakener
Reviewed By

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^{*} indicates that a quality control analyte recovery is outside of specifical acceptance criteria.

CHAIN OF CUSTODY RECORD

Page of 2 URNAROUND (803) 556-8171 SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods Client Name/Facility Name Use L or P in the boxes to indicate whether sample was filtered and/or preserved SPORTENY DETCHASN Collected by/Company **Fotal Phenol** SPORTENYDETCHASN Coliform . type Remarks SAMPLE ID DATE TIME SPORT 4456-1 6-3-914853 NBCE \$\$\$\$ \$ \$ \$ \$ 1 \$ 1 5PORT \$456-2 6-3-97 \$9\$\$ NBCE 045 5 043 1 02 56cT4456-3 6-3-97 4946 NBCEP\$530432\$1 SPORT \$456-4 6-3-97 \$911 NBCE 0 45 5 0 4 3 2 0 2 5BCT\$456-5 6-3-91 \$918 NBCE 445 \$ 4433 \$1 SPORTO 456-6 6-3-97 0925 NBCE 005 \$ 00 33 02 5PORT \$456-7 6-3-97 \$932 NBCE \$45\$ 4434 \$1 SPORTO 456-8 6-3-91 0942 NBCE ФФ534Ф34Ф2 260 256-9 6-3-97 p95p X NBCE 4453 44 3541 SPORT 4456-14 6-3-91 1244 NBCE \$\$5\$ \$\$ 35\$2 NBCE 445 5 44 36 41 5PORT 4456-11 6-3-97 1207 SFORT \$ 456-12 6-3-97 1215 NBCE4455443642 | S6RT 0456-13 | 6-3-97 | 1225 Relinquished by: | Date: NBCE \$ \$5\$ \$ \$ 37\$1 Relinquished by:

1. K. Frey J.

Pate:

1 ime:

Remarks: BROWNLAND

White = sample collector //

Yellow = file

Pink = with report

CHAIN OF CUSTODY RECORD

RD 2040 Savage Road
Charleston, South Caron 2414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

General Engineering

forces. Inc.

Page 2 of 2 — 3 DAY TURNAROUND —

White = sample collector // Yellow = file

Client Name/Facility Name SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods Use F or P in the boxes to indicate whether sample was filtered and/or preserved SPORTEWYDETCHASM Coliform - specify type Acid Extractables B/N Extractables Collected by/Company SPORTENY DETCHASN Remarks SAMPLE ID DATE TIME NBCE \$ \$5 [\$ \$ 38 \$ 1 SPORT 6456-14 6-3-97 1225 NBCE405\$003702 |SPORTO456-15|6-3-97|1231 NBCE \$\$\$\$\$ 39\$1 SFORT \$456-166-3-97 1238 NBCE \$ \$5 \$ \$ \$ 4 \$ \$ \$ 1 SPORT \$456-17 6-3-97 1246 Time: Received by:

1849 W.R. Hiers, J. Relinquished by:

Time: Received by: 18481 8922

Time: Received by: 1856 by: 1866 Bate: 1866 Remarks: 1867 Bate: 1867 Relinquished by: 6/3/97 1549



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL EM FL 887156/87294 E87472/87458 NC 233 SC 10120 10582 TN 02934 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detechment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID Lab 1D : SPORT0456-1 : 9706075-01

Matrix
Date Collected

: Soil : 06/03/97

Date Received

: 06/04/97 : Rush

Priority Collector

: Client

Parameter	Quaitfler	Result	DL	RL Units	DF Analyst Date	Time Batch M
Metols Analysis		1310	1.72	4.72 mg/kg	1,0 155 06/05/5	7 1600 103079 1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concontration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyse was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

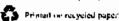
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

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+9706075-01*



^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL F. NC E87156/87294 E87472/87458

10120 02934

10582 02934

Client

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID

Lab ID

: 9706075-02

Matrix

: Soil

: SPORT0456-2

Date Collected Date Received : 06/03/97

Priority

: 06/04/97 : Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis Lasd		571	1.72	4.72 mg/kg	1.0 JSS 06/05/97 1602 103 079 1

The following prep procedures were performed:

ICP

PGD 06/05/97 1300 103079 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories sundard operating procedures. Please direct uny questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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Laboratory Certifications STATE GEL

E87472/87458 EX71 56/87294 10582 10120 നമ

Client

Supervisor of Ship Building & Conversion

SUPSHIP Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample LD

: SPORT0456-3

Lab ID

: 9706075-03

Matrix

: Soil

Date Collected

Date Received

: 06/03/97

: 06/04/97

Priority Collector : Rush : Client

Parameter	Qualifier	Resuit	DL	RL Units	DF Analyst Date Time Satch M
Metals Analysis		4340	1.80	4.95 me/kg	1.0 JSS 06/05/97 1603 103079 1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-Description	
M1	EPA 6010A	
M 2	EPA 3050	•

Notes:

The qualifiers in this report are defined as follows:

3 Blakene

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting roday's neces with a vision for tomorrow.

Laboratory Certifications

STATE GEL RPI E87472/87458 E87156/87294 233 10582

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

02934

Sample ID Lab ID

: SPORT0456-4

Metrix

: 9706075-04

Date Collected

: Soil

Date Received

: 06/03/97

: 06/04/97

Priority Collector : Rush : Client

Parameter	Quailfier	Result	DL	RL U	nits	DF	Anal	yst Date	Time	Batch	M
Metals Analysis											
Lead		258	1.70	4.67 m	g/kg	1.0	JSS	06/05/97	1608	103079	1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M ≈ Method	Mathod-Description
M 1	EPA 601QA
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

Jindicates presence of enalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greates than the detection limit.

This data report has been prepared and roviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct my questions to your Project Manager, Karen Blakency at (803) 769-7386.

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Laboratory Contilications

STATE GEL EPT E87472/87458 E87156/87294

FL NC SC TN 220 10120

10562 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample IID LabID

: 5PORT0456-5

Marrix

: 9706075-05

Date Collected

: Soil : 06/03/97

Date Received

: 06/04/97

Priority

: Rush

Collector

: Client

Purumeter	Qualifier	Result	DL	RL	Units	DF	Vual	yst Date	Time	Butch	M
Metals Analysis		•									
Load		41700	35.3	ם דו	mg/kg	20.	JSS	06/ 05/9 7	1653	103079	1

The following prep procedures were performed:

FGD 06/05/97 1300 103079 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyse was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

Blakens

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

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indicates that a quality control analyte recovery is outside of specified acceptance efficies.



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE CEL E87472/87458 E17156/87294 NC SC TN 10120 10182 17934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page I of 1

Sample ID Lab ID

: SPORT0456-6

: 9706075-06

Matrix

: Soil

Date Collected

: 06/03/97

Date Received

: 06/04/97

Prionty

: Rush

Collector

: Client

Parameter	QualMer	Result	DL	RL Units	DF	Ana	lyst Date	Time	Batch M	А
Metals Analysis Lead		1030	1.73	4.76 mg/kg	1.0	JSS	06/ 05/ 97	1614	103079	1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

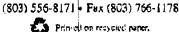
I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7886.

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^{*} indicates that a quality control malyte recovery is outside of specified acceptance criteria.



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Laboratory Cartifications

STATE GEL E17472/87458 FL NC SC TN E17156/17294 213 10120 10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portemouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID

: SPORT 0456-7

ال طعــا

: 9706075-07

Matrix

: Scil

Date Collected

: 06/03/97

Date Received

: 06/04/97

Priority

: Rush

Callector

: Client

Parameter	Qualifler	Result	DL	RL Units	DF	Analy	st Date	Time	Butch M	1
Metals Analysis		20900	33.7	92.6 mg/kg	20.	JSS	06/05/91	7 1655	103079 1	1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method		Method-D	escriptivo
M 1	<u></u>	 EPA 601)A
M 2		EPA 305	b

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit

I indicates presence of analyse at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

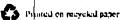
indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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my questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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Laboratory Certifications

STATE GEL HH7472/87458 E87156/87294 FL NC SC IN 211

10120 02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID

Lab ID

: 5PORT0456-8 : 9706075-08

Matrix

: Soil

Date Collected Date Received

: 06/03/97

Priority

: 05/04/97

Callector

Qualifier

: Rush

Parameter

: Client

Metals Analysis

Lead

9250

Result

4.95 mg/kg 1.80

RL

Units

DL

1.0 JSS

DF Analyst Date

06/05/97 1624 103079 1

Time Batch M

The following prep procedures were performed:

FGD 06/05/97 1300 103079 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Laboratory Certifications

STATE GEL 1991 1987472/117458 FL NC SC TN E17156/87294

10120 10582 02014 112934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portamouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portemouth Detechnicate

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID

: SPORT0456-9

LabID

: 9706075-09

Matrix

: Soil

Date Collected

Date Received

: 06/03/97

. 06/04/97

Priority Collector

: Rush : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analy	st Date	Time	Batch	M
Metals Analysis Lead		5630	1.80	4.95	mg/kg	1.0)5\$	06/05/97	1626	103079	1

The following prep procedures were performed:

ICP

FOD 06/05/97 1300 103079 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of smalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been propered and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

any questions to your Project Manager, Karen Blakency at (803) 769-7386.

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indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

STATE GEL EPI IIL E87156/87294 E87472/87458 NC 233

C 10120 N 02934 105**82** 0**2934**

Ciiant

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portemouth Detechment

œ: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

 Sample ID
 : SPORT 456-10

 Lab ID
 : 9706075-10

 Marrix
 : Soil

 Date Collected
 : 06/03/97

 Date Received
 : 06/04/97

 Priority
 : Rush

Collector : Client

Parameter	Qualifler	Result	DL	RL Units	DF	Anai	yst Date	Time	Batch 1	M
Metals Analysis		•							,	
Lead		6130	1.77	4.85 mg/kg	1.0	JSS	06/05/97	1528	103079	1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-Description	b
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Laboratory Certifications

BPI D17472/87458 STATE GEL E87156/87294 NC SC TN 233

10120 02934 10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Caroline 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

∞: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID

: SPORT0456-11

Lab ID

: 9706075-11

Matrix

: Soil

Date Collected

: 06/03/97

Date Received

: 06/04/97

Priority	: Kush
Collector	: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst	Date Time	Batch M
Metals Analysis Lead		2890	1.78	4.90 mg/kg	1.0 JSS 06	5/05/97 1526	103079 1

The following prep procedures were performed:

ICP

PGD 06/05/97 1300 103079 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of snalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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Œ. 1287472/87458 233 10502

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachmuni-Env.

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North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT 0456-12

: 970607\$-12

Matrix

: Soil

Date Collected

: 06/03/97

Date Received

: 06/04/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anal	yst Date	Tlme	Batch	M
Metals Analysis Lead		238	1.75	4.81 mg/kg	1.0	JSS	06/05/97	1645	103079) 1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-De	cription
M 1	EPA 6010	A
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

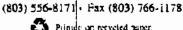
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Laboratory Certification

EPI E17472/87458 CEL 287156/87294

10487 10120 02934

Client:

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID

· SPORT/0456-13

Lab ID

: 9706075-13

Matrix

Date Collected

: Soil

Date Received

: 06/03/97

: 06/04/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anniyst Date	Time	Batch M
Metnis Analysis Load		4330	1.73	4.76 mg/kg	1.0	155 06/05/9	7 1648	103079 1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-D	escription
M 1 M 2	EPA 601 EPA 305	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyse was not detected at a concentration greater than the detection limit.

J indicates presence of smalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certification

STATE DEL E87472/87458 E87156/87294 NC 233

10120

10582 02934

Client

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

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Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: Jurie 09, 1997

Page 1 of 1

Sample ID

: SPORT 0456-14

Lab ID

: 970607\$-14

Matrix

: Soil

Date Collected

: 06/03/97

Date Received

: 06/04/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF A	aniyst Date	Time	Batch N	и
Metals Analysia Lead		3450	1.75	4.81 mg/kg	1.0 JS	S 06/05/97	1651	103079	1

The following prep procedures were performed:

FGD 06/05/97 1300 103079 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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U indicates that the analyte was not detected at a concentration greater than the detection limit.

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STATE GEL EPI E87472/87458 E87156/87294 NC 233 10582 02934 10120 sc

Client:

Supervisor of Ship Building & Conversion

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Demchment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sumple ID

: SPORT0456-15

Lab ID

: 9706075-15

Matrix

: Soil

Date Collected

Date Received

: 06/03/97

Prionty

: 06/04/97

Collector

: Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF	Anul	yst Date	Time	Batch M	1
Metals Analysis Lead		1250	1.72	4.72 mg/kg	1.0	JSS	06/05/97	1651	103079 1	l

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-De	scription
M 1	EPA 6010.	A .
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Laboratory Cartifications

STATE CIEL EFI
FL E57156/67294 E87472/67458
NC 233
9C 10120 10512
TN 02934 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sumple JD

: SPORT0456-16

DĽ

Lub ID

: 9706075-16

Matrix

: Soil

Date Collected

: 06/03/97

Date Received

: 06/04/97

Priority

. 50,017

Collector

Qualifier

: Rush

Parameter	
_	_

: Client

Metnis Analysis

337

Result

1.78 4.90 mg/kg

RL Units

1.0 JSS

DF Anniyst Date

06/05/97 1529 103079 1

Time Batch M

The following prep procedures were performed:

ICP

PGD 06/05/97 1300 103079 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concontration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the desection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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STATE GEL EPI E87472/87458 E\$7156/87204 FL NC SC TN 231

10120

10582 02934

Client

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detechment

a: NPWC00197

Report Date: June 09, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0456-17

: 9706075-17

Matrix

: Soil

Date Collected

: 06/03/97

Date Received

: 06/04/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Anal	yst Date	Time	Batch 1	M
Metals Analysis								•	
Load		6170	1.73	4.76 mg/kg	1.0 JSS	06/05/97	1531	103079	1

The following prep procedures were performed:

ICP

FGD 06/05/97 1300 103079 2

M = Method	Method-De	Description
M 1	EPA 6010	.O.A.
M 2	EPA 3050	50

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyse at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

" indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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CHAIN OF CUSTODY RECORD

General Engineering I es, Inc. 2040 Savage Road Charleston, South Carolina 27407 PO. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

Page 1 of 1 Client Name/Facility Name SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods Use F or P in the boxes to indicate whether sample was filtered and/or preserved SPORTENYDETCHASN # OF CONTAINERS B/N Extractables Collected by/Company Nitrite/Nitrate Total Phenol SPORTENYDETCHASN Cyanide TIME Remarks SAMPLE ID DATE NBCE 0 45 5 4 0 4 1 0 2 SPORT \$ 465-16-17-97 1402 NBCE\$\$5\$\$\$41\$1 5BRT \$465-2 6-17-97 1409 X SFORT\$465-36-17-97 1418 NBCE \$\$5\$ \$\$42\$1 SFORT\$465-46-17-97 1425 X NBCE\$\$5\$\$\$43\$1 Relinguished by: Received by: Relinquished by: Time: Re inquished by: Date:

White = sample c llector

Yell w = file

Pink = with rep rt



Meeting today's needs with a vision for comorrow

Laboratory Cartifications

STATE GEL. **EPI** FL B87156/87294 EB7472/8745# NC 233

10120

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Porsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Deutchment

c: NPWC00197

Report Date: June 23, 1997

Page 1 of 1

Sample ID

Lab ID

: SPORT0465-1 : 9706405-01

Matrix

: Soil

Date Coilected

: 06/17/97

Date Received

: 06/18/97

Priority Collector

Qualifier

: Rush

: Client

	***	HENET	
M	etals	Analysis	

195000

Result

DL

134

Units

ug/kg

RL

DF Analyst Date

Time Batch M

2.0 MBL 06/20/97 1230 103771 1

The following prep procedures were performed:

TRACE

Lead

CRB 06/18/97 2300 103771 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyse was not detected at a concentration greater than the detection limit.

I indicates presence of snalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyse recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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p 004

LET:802-825-2815



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Laboratory Certifications

STATE GEL. FL 88715647294 EPI HB7472/\$7458 FL NC SC TN 233

10120

10582 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 23, 1997

Page 1 of 1

Sample ID Lab ID

: SPORT0465-2 : 9706405-02

: Soil

Matrix Date Collected

: 06/17/97

Date Received

: 06/18/97

Priority

: Rush

Collector

: Cliant

Parameter	Qualifler	Result	DL	RL	Units	DF	Analyst Date	Time	Batch M	4
Metals Analysis										
Lead		2050000	125	459	ug/kg	2.0	MBL 06/20/97	1215	103771	1

The following prep procedures were performed:

TRACE

CRB 06/18/97 2300 103771 2

M = Method	Method-Description	
М1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Laboratory Certifications

STATE ŒL. E87472/87458 E87156/87294 233

10582 10120 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 23, 1997

Page 1 of 1

Sample ID

Lab ID

: SPORT0465-3

Morrix

: 9706405-03

Date Collected

: Soil

: 06/17/97

Date Received

: 06/18/97

Priority

: Rush

Collector

: Client

Parameter	Qualifler	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		533000	135	495 ug/kg	2.0 MBL 06/20/97 1220 103771 1

The following prep procedures were performed:

TRACE

CRB 06/18/97 2300 103771 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

LET: 802-825-2815

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakency at (803) 769-7386.

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9706405-03



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Laboratory Certifications

STATE GEL EPI FL 257156/87294 287472/87458 NC 233

10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

æ: NPWC00197

Report Date: June 23, 1997

Page 1 of 1

Sample ID Lab ID : SPORT0465-4 : 9706405-04

: Soil

Matrix
Date Collected

: 06/17/97

Date Received

: 06/18/97

Priority

: Rush

Personates	Osselliffer	Darult	
	Collector		: Client
	,		

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		499000	129	472 ug/kg	2.0 MBL 06/20/97 1225 103771 1

The following prep procedures were performed:

TRACE

CRB 06/18/97 2300 103771 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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9706405-04

CHAIN OF CUSTODY RECORD

General Engineeri es, Inc 2040 Savage Road Charleston, South Carolina 29407 PO Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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Page_	of	

Client Name/Facility Name SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods Use I or P in the boxes to indicate whether sample was filtered and/or preserved # OF CONTAINERS SKRTENY DUTCHASH B/N Extractables Collected by/Company Total Phenol SPORTENY DETCHISH TOC/DOC Coliform WELL SOIL COMP TOX Remarks SAMPLE ID DATE TIME 10-23.9 SPORT \$ 555 1 1105 NBCC##52444441 10-23-71 1113 SFORT4555-2 10-23-91 112c 510×14555-3 DOM 10-23-91 1126 10-23-91 1134 X CFOKT0555-6 10-23-11 1153 10-23-97 1200 SIOKT \$555-7 SIGKT 6 555 8 10-23-97 1408 StorT4565-9 10-23-91 1218 Stort \$555-10 10-43-94 1227 10-63-99 1237 SIGKT \$555-12 10-23-17 1246 DRM Sierita Relinquished by: Time: Received by: Relinquished by 1445 Time: Relinquished by: Received by tab by: Date:



Meening today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL FLNCSC 1287.56/27294 E97472/\$7456

:0120 10582 029,14 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Data: October 30, 1997

: SPORT0555-1

Page 1 of 1

Sample ID

Lab ID

: 9710621-01

Matrix

: Soil

Date Collected

: 10/23/97

L'aie Received

Phonix

: 10/23/97

Collector

Routine : Client

Parameter	Quaitiler	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		210000	66.4	490 ug/kg	2.0 MBL 10/29/97 0222 110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1	EPA 6010A	· · · · · · · · · · · · · · · · · · ·
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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LET:802-825-2815

undicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow

Laboratory Certifications

STATE GEL EPI FL 237156/87294 EX7472/x7458 NC 233 SC 10120 105x1 IN 02934 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detechment

cc: NPWC00197

Report Date: October 30, 1997

: SPORT0555-2

Page 1 of 1

Sample ID

LabID

: 9710621-02

Marrix

: Soil

Date Collected

: 10/23/97

Date Received

: 10/23/97

Priority

Routine

Collector

: Clien:

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch M
Metals Apolysis						_			
Lead		1930000	66 <i>A</i>	490	սը/kg	2.0	MBL 10/29/97	0227	110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes.

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of smalyre at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Hlakeney at (803) 769-7386.

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9710621-02



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Laboratory Certifications

STATE FL NC SC TN CEL E87156/87294 E87472/87458 233

: 0120 10582 02934

Client:

Supervisor of Ship Building & Conversion

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1699 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

œ: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

Sample 1D

Lab ID

: SPORT0555-3 : 9710621-03

Matrix

: Soil

Date Collected

: 10/23/97

Date Received

: 10/23/97

Priority

: Routine

Collector

: Client

Parameter	Qualifler	Result	DL	RL Units	DF Analyst Date Time Butch M
Metals Analysis		227000	<i>(</i>	45E . A	4 A REDT (DECEMBER 0240 110055 1
Lead		33700 0	65.8	485 ug/kg	2.0 MBL 10/29/97 0232 110077 1

The following prep procedures were performed:

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1 M 2	EPA 6010A EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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D Blakene

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Laboratory Certifications

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10582 02934

Client:

Supervisor of Ship Building & Conversion

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North Charleston, South Carolina 29405-2106

Control

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

œ: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

Sample ID

Lab ID

: SPORT0555-4 : 9710621-04

Matrix

· Soil

Date Collected

. 10.23,97

Date Received Propin

10/23/97 : Routine

Collector

: Chen:

Parameter	Qualifier	Resuit	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		898000	64.5	476 ug/kg	2.0 MBL 10/29/97 0237 110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the doubton limit.

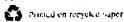
" indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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9710621-04





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NC 10120 TN 02934 10582 02934

Client

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

Sample ID
Lab ID
Matrix
Date Collected
Date Received
Priority
Collector

: SPORT0555-5 : 9710621-05

: 10/23/97 : 10/23/97 : Routine : Client

: Soil

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metnis Anulysis Lead		7980	62.2	459 ug/kg	2.0 MBL 10/29/97 0242 110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Blakeni

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Reviewed By

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9710621-05

[&]quot; indicates that a quality control analyte recovery is ourside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE FL NC SC TN GIII. EPI E87472/87458 B\$7:56/87294 233

10582 02934

Client

Supervisor of Ship Building & Conversion

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Desemption:

SUPSHIP-Portsmouth Detachment

œ: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

Sample ID

Lab ID

: SPORT0555-6 : 9710621-06

Matrix

Sail

Date Collected

. 10/23/97

Date Received

: 10/23/97

Prionty

: Routine

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis Load		120000	65.B	485 ug/kg	2.0 MBL 10/29/97 0247 110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates prosence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

LET:802-825-2815

* indicates that a quality control analyse recovery is outside of specified acceptance criteria.

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standard operating procedures. Please direct

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9710621-06





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Laboratory Cartifications

STATE GEL EPI E87472/87458 E87156/87294 E SC 233 10582

10120

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Deutchment-Env.

1899 North Holson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detechment

c: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

02934

Sample ID

: SPORT0555-7

Lab ID Metrix : 9710621-07

: Soil

Date Collected

: 10/23/97

Date Received

: 10/23/97

Priority Collector

Qualifier

: Routine : Client

Parameter	

DL

DF Analyst Date Time Batch M

Metals Analysis Lead

1300000

62.2 459 ug/kg

RL

Units

2.0 MBL 10/29/97 0252 110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Result

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the enalyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

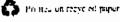
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9710621-07



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Laboratory Certifications

STATE GEL FL NC STN E57156/87294 E87472/87458 233

03:20 22014

10583 02934

Client

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detrichment

cc: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

Sumple ID

: SPORT0555-8

Lab ID Matrix

: 9710621-08

: Soil

Date Collected

Date Received

: 10/23/97

: 10/23/97

Priority Collector : Routine

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analy	st Date	Time	Batch !	M
Metals Analysis											
Leud		1 B40000	166	1230	ug/kg	5.0	MBL	10/29/97	0322	110077	1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Mathod-Description	
M 1	EPA 601DA	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of snalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

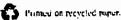
any questions to your Project Manager, Karen Biakeney at (803) 769-7386.

ew Blakenei

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9710621-08



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Laborstory Certifications

STATE GEL. FL EN7156/87294 FL NC SC TN E87472/87458 233

10120

10562 02934

Client

Supervisor of Ship Building & Conversion

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

Sample ID

: SPORT0555-9

Lub ID

: 9710621-09

Matrix

: Suil

Date Collected Due Received

: 10/23/97 : 10/23/97

Promiy

: Routine

Collector

: Client

Parameter	Qualifier	Result	DL	RL L	nita D	F A	nalyst Date	Time	Batch N	N
Metals Analysis										
Load		365000	65.8	485 ug	g/kg 2	.0 M	IBL 10/29/97	0302	110077	1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the datection limit (DL).

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Meeting index's needs with a vision for fomorrow

Laboratory Certifications

STATE GPL. FL NC SC E87156/87294 E87472/87458 223

: C1 20 10552 02934

Client:

Supervisor of Ship Building & Conversion

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detechment

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Report Date: October 30, 1997

Page 1 of 1

Sample ID

: SPORT0555-10

Lab ID

: 9710621-10

Maurix Date Collected : Soil

Date Received

: 10/23/97

: 10/23/97

Priority

: Routine

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date Time	Batch M
Metals Analysis								
ال <u>حد</u> ط		306000	67.1	495	ug/kg	2.0	MBL 10/29/97 0307	110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	
М 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of snalyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Blaken

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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9710621-10



[•] indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

02934

STATE GEL N N N I E87156/87294 EB7472/87458 233 10120 10582

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

02934

Sample ID

: SPORT0555-11

Lab ID Maurix

: 9710621-11

: Soil

Date Collected

: 10/23/97

Dam Received

: 10/23/97

Priority

: Routine

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		4840000	160	1180 ug/kg	5.0 MBL 10/29/97 0345 110077 1

The following prep procedures were performed:

TRACE

CRE 10/27/97 2000 110077 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyse was not descried at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Picase direct

en Blakina

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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9710621-11



indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrom.

Laboratory Certifications

STATE GEL FL E871: NC 233 SC 16126 IN 0295 E87156/87294 EH7472/87458

10120

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

œ: NPWC00197

Report Date: October 30, 1997

Page 1 of 1

Sample ID

: SPORT0555-12 : 9710621-12

Lab ID Morrix

: Soil

Duic Collected

: 10/23/97

Date Received

: 10/23/97

Priority Collector : Routine : Client

Parameter	Qualifler	Result	DL	RL Units	DF Analyst Date Time Batch M
Metais Analysis					
Lend		2320000	67.8	500 ug/kg	2.0 MBL 10/29/97 0335 110077 1

The following prep procedures were performed:

TRACE

CRB 10/27/97 2000 110077 2

M = Method	Method-Description	_
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicutes presence of analyte at a concentration less than the reporting limit (RL) and prestor than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

en Blakene

PO Box 30712 - Charleston, SC 29417 - 2040 Savage Road - 29414 (803) 556-8171 • Fax (803) 766-1178



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3 DAY TURNALOUND

CHAIN OF CUSTODY RECORD

General Engineering I ories, Inc 2040 Savage Road Charleston, South Carolina 29407 PO Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE FL NC SC TN GEL EM E87472/87458 E87: 56/17294 233 10582 02934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

œ: NPWC00197

Report Date: November 13, 1997

Page 1 of 1

Sample ID

Lab ID

: SPORTO565-1 : 9711235-01

Matrix

: Soil

Date Collected

: 11/10/97

Date Received

: 11/10/97

Proprity

: Rush

Collector

: Clienz

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		2150000	65.2	1440 ug/kg	2.0 MBL 11/12/97 1123 111094 1

The following prep procedures were performed:

TRACE

FGD 11/11/97 1700 111094 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of ensiyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

IET:802-825-2815

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakency at (803) 769-7386.

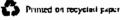
ren Blakema Reviewed By

P O Box 30712 * Charleston, SC 29417 * 2040 Savage Road * 29414

(803) 556-8171 • Fax (803) 766-1178

9711235-01





indicates that a quality control analyse recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tamorrow

Laboratory Certifications

02334

STATE GEL E87472/87458 E87156/87294 NC L0582 02934 10120

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiczs

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 13, 1997

Page 1 of 1

Sample ID

: SPORT0565-2

Lab ID Matrix

: 9711235-02

: Soil

Data Collected

+ 11/10/97

Date Received

: 11/10/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Anal	yst Date	Time	Batch M
Metals Analysis							_			
Lead		1630000	62.8 1	390	ug/kg	2.0	MBL	11/12/97	1127	111094 1

The following prep procedures were performed:

TRACE

FGD 11/11/97 1700 111094 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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9711235-02



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Meeting today's needs with a vision for tomorrow.

Laboratory Cartifications

STATE FL NC SC TN EP4 Ex7472/87458 CEL B\$7156/17294 233

10120

10582 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 13, 1997

Page 1 of 1

Sample ID Lab ID Matrix

: SPORT0565-3 : 9711235-03

Date Collected Date Received

. 11/10/97 : 11/10/97

Priority Collector : Rush : Client

: Soil

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					-
Lead		1140000	64.0	1420 ug/kg	2.0 MBL 11/12/97 1132 111094 1

The following prep procedures were performed:

TRACE

FGD 11/11/97 1700 111094 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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Meeting today's needs with a vision for tomorrow:

Laboratory Cartifications

STATE GEL HP1 PB7472/87458 FLNCK E17156/87294

10120

10582 UZ934

Cliant:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 Nonh Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: November 13, 1997

Page 1 of 1

Sample ID

: SPORT0565-4

Lab ID

: 9711235-04

Matrix

: Soil

Date Collected

Date Received

: 11/10/97 : 11/10/97

Priority

: Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis	_				
Load		1380000	64.0	1420 ug/kg	2.0 MBL 11/12/97 1137 111094 1

The following prep procedures were performed:

TRACE

FGD 11/11/97 1700 111094 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the malyte was not detected at a concentration greater than the detection limit.

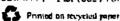
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en Blakene

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9711235-04



^{*} indicates that a quality control analyte recovery is outside of specified acceptance enteris.



Meeting inday's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL FL EST:56/17294 FL NC SC TN E27472/17458 233

.0120

10582 02934

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Pertamouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portamouth Detachment

c: NPWC00197

Report Date: November 13, 1997

Page 1 of 1

Sample ID

: SPORT0565-5

Lab ID Marrix

: 9711235-05

: Soil

Data Collected

11/10/97

Date Received

: 11/10/97

Progrity

: Rush

Collector

: Client

Parameter	Qualifler	Result	DL	RL	Units	DF	Analy	st Date	Time	Batch	M
Metals Analysis											
Lend		4620000	66.4	1470	ug/kg	2.0	MBL	11/12/97	1142	111094	1

The following prep procedures were performed:

TRACE

FGD 11/11/97 1700 111094 2

M = Method	Method-Description	
M1	EPA 6010A	
M 2	EPA 3050	

Notes:

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indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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CHAIN OF CUSTODY RECORD

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General Engineering Lab ies. Inc 2040 Savage Road Charleston, South Carolina 29407 PO Box 30712 Charleston, South Carolina 29417 (803) 556-8171

Page__ of _\									SF	20	27	_ (_ うら	- 56	9	_	-							556-8171	пСаюни	1 29417
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Collected by/Company					# OF CONTAINERS	pH. conductivity	200		Chloride, Fluonde, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	je je	ide	henol	Acid Extractables	B/N Extractables		ي ا	m - specify			CC	11 3	300-	72
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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

EP! E87472/87458 GEL E87156/87294 233 10587 10120 (27934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contect

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

Same soul sour osus-liver.

Lac 2150 pper total level.

cc: NPWC00197

Report Date: November 20, 1997

Sample ID

Lab ID

: SPORT0369-01 9711438-01-

Marrix

: TCLP

Data Collected

Date Received

: 11/10/97

Prionty

: 11/17/97 : Rnsh

Collector

: Client

Parameter	Quallfer	Result	DL	RL	Units	DF Analyst Date Time Batch M
Metols Analysis						
Lead		26600	1. 36	10.0	ug/l	2.0 MBL 11/19/97 0950 111471 1

The following prep procedures were performed:

TCLP Prep for Meuis

11/17/97 1435 111368 2 JL.

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 1311	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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9711438-01

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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL TU17472/87458 E\$7136/87294 233 10120 10582

Client

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Demehment

Same ID SAPT OSLOS-S Dad multiple Alino. Am total land

œ: NPWC00197

Report Date: November 20, 1997

Sample ID Lab ID

: SPORT0569-02

Marrix

: 9711438-02 +TCLP

Date Collected

: 11/10/97

Date Received

: 11/17/97

Priority Cellector : Rush : Client

Parameter	Qualifier	Result	DL	RL Units	DF Analyst Date Time Batch M
Metals Analysis					
Lead		81100	1.36	10.0 119/1	2.0 MBL 11/19/97 0944 111471 1

The following prep procedures were performed:

TCLP Prep for Metals

11/17/97 1435 111368 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 1311	

Notes:

The qualifiers in this report are defined as follows:

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(803) 556-8171 • Fax (803) 766-1178

9711438-02

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3-DAY TIRMALORENZO

CHAIN OF CUSTODY RECORD

General Engineering La tes, Inc 2040 Savage Road Charleston, South Carolina 29407 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

Page of Client Name/Facility Name SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods Use For P in the boxes to indicate whether sample was filtered and/or preserved SPORTENVIXETCHASN Coliform · specify type Chloride, Fluoride, Sulfide Acid Extractables Collected by/Company Total Phenol SPORT ENVIDET CHASN Herbicide WELL SOIL COMP Remarks SAMPLE ID DATE SADRIO576-1 11-25-77 1000 NBCE-0055005901 SARTOS76-211-25 97 1010 NBCE 00 5 500 600 01 5ARTO576-311-25 97 1021 NBCE0055006101 SPORTO576-4 11-25-97 1033 NBCE 0055 00 6202 TARGET LEVEL: 1300 PPM Relinguished by: Received by: Relinquished by: 16 Hin Auska 1425 Seephania Beobeetu 1133 Relinguished by: Received by lab by: Time: Date:

White = sample collector

Yell w = file

Plnk = with report



Meeting today's needs with a vision for tomorrow

Laboratory Cartifications

STATE GRL E87472/17451 FL NC SC TN E87156/17294 233

10120

10582 m2134

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portamouth Detachment

cc: NPWC00197

Report Date: December 02, 1997

Page 1 of 1

Sample ID

Lub ID

: SPORT0576-1

:9711726-01

Metrix

: Soil

Date Collected

: 11/25/97

Late Received Priority

: 11/25/97

Collector

: Rush : Client

Parameter	Quallier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch M
Metals Analysis Lead		1270000	66.4	490	ug/kg	2.0	MBL 11/30/97	1507	112020 1

The following prep procedures were performed:

TRACE

RMJ 11/26/97 1600 112020 2

		<u> </u>
M ≠ Method	Method-Description	_
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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Reviewed By

PO Box 30712 · Charleston, SC 29417 · 2040 Savage Road · 29414

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9711726-01



^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow

Laboratory Certifications LPI F\$7472/87451 STATE GEL E97156/87294 FL NC SU K 233 10582 10120 02934 02914

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Holson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 02, 1997

Page 1 of 1

Sample ID

: SPORTU576-2

Lab ID Matrix

: 9711725-02

Date Collected

: Soil

Date Received

: 11/25/97

: 11/25/97

Priority Collector · Rush

: Client

Parameter	Qualifier	Result	DL	RL Unl	ts DF	Analyst Date	Time	Batch	М
Metals Anniysis		598000	65.8	485 ug/k	sg 2.0	MBL 11/30/97	1512	112020	1

The following prep procedures were performed:

TRACE

RMJ 11/26/97 1600 112020 2

M = Method	Method-Description	·
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Reviewed By

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414

(803) 556-8171 • Fax (803) 766-1178

9711726-02

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indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting today's needs with a vision for tomorrow.

Laboratory Certificath

EPI E87472/87458 STATE FL NC 8C IN E87136/87294 233

10120 02931

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 02, 1997

Page 1 of 1

Sample ID

Lab ID

: SPORT0576-3 : 9711726-03

Matrix

Date Collected

: Sail

Date Received

11/25/97

Priority

: 11/25/97 , Rush

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Dale	Time	Batch M
Metals Anniyals									
Lead		657000	67.8	500	ng/kg	2.0	MBL 11/30/97	1518	112020 1

The following prep procedures were performed:

TRACE

RMJ 11/26/97 1600 112020 2

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection timit.

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indicates that a quality control analyse recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Luboratories standard operating procedures. Picase direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

P O Box 30712 · Charleston, SC 29417 · 2040 Savage Road · 29414

(803) 556-8171 • Fax (803) 766-1178

9711726-03

Printed on recycled paper

LET:802-825-2815



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Laboratory Certification

STATE GEL 1317472/87458 E87156/17294 233

10120

10592 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Porismouth Detachment

cc: NPWC00197

Report Date: December 02, 1997

Page 1 of 1

Sample ID

Lab ID

: SPORT0576-4 : 9711726-04

Marrix

: Soil

Date Collected

Date Received

: 11/25/97

: 11/25/97

Priority Collector : Rush : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Botch	М
Metals Analysis							_				
Lead		258000	66.4	490	ug/kg	2.0	MBL 11	/30/97	1524	112020	1

The following prep procedures were performed:

TRACE

RMJ 11/26/97 1600 112020 2

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

ren Blakini

any questions to your Project Manager. Karen Blakeney at (803) 769-7386.

P O Box 50712 · Churleston, SC 29417 · 2040 Savage Road · 29414

(803) 556-8171 • Fax (803) 766-1178

+9711726-04*

1881 89 FAR 1977 60 BLA 1981 AN AND 1883 FAR 31

Printed on recyclus paper

LET:802-827-2817

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

CHAIN OF CUSTODY RECORD

General Engineering I ories, Inc. 2040 Savage Road
Charleston, South Car. 29414
P.O. Box 30712
Charleston, South Carohna 29417
(803) 556-8171

Page _____ of ____

Client Name/Facility Name SAMPLE ANALYSIS REQUIRED (x)—use remarks area to - pecify specific compounds or methods Use For Parithe boxes to indicate whether WELL Z SOIL COMP GRAB # OF CONTAINERS s miple was liftered and/or preserved SPORTENV DETCHASH Collected by/Company D.R. MOLSE SPORTENVDETCHASN Colitorm . Remarks TIME SAMPLE ID DATE SWMU 5. NBCE005 Z000100 SHIMU 5 SPORTOUTH-1 1330 NBC £005 7000200 SWMU 5 SPORT0074-3 6/12/ NBCE005V 000100 METALS: 1) REPA METALS 2) ANTIMONY - ICP 3) BERYLLIUM-ICP 4) NICKEL- IEP Relinquished by:

| Date: Time: Received by:
| Date: Time: Received by:
| Date: Time: Remarks: | Date: Time: Received by:
| Date: Time: Remarks: | Date: Time: Received by: | Date: 1000 Time: Received by: Relinguished by:



Meeting today's needs with a vision for tomorrow

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 20, 1996

Page 1 of 3

Sample ID

Lab ID

Matrix Date Collected

Date Received

Priority

Collector

: SPORT 0074-1

: 9606278-01

: GroundH2O

: 06/12/96

: 06/14/96

: Routine

: Client

Parameter	Qualifler	Result	DL	RL	Units	DF	Analyst Date	Time	Batch	M
Metals Analysis										
Mercury	J	0.0520	0.0148	0.500	ug/l	1.0	RMJ 06/17/9	6 1646	86049	N
Silver	U	1.04	2.49	10.0	ug/l	1.0	NRM 06/19/9	6 0112	86 09 9	1
Arsenic		80.9	1.86	10.0	ug/l	1.0				
Barium		20.1	0.0663	10.0	ug/l	1.0				
Beryllium	U	-0.129	0.0114	5.00	ug/l	1.0				
Cadmium	l	2.90	0.0970	5.00	ug/l	1.0				
Chromium		163	0.596	10.0	ug/l	1.0				
Nickel		24.2	0.807	10.0	ug/l	1.0				
Lead		1240	1.13	5.00	ug/l	1.0				
Antimony	J	2.46	0.958	10.0	ug/l	1.0				
Selenium	U	-0.818	1.43	5.00	ug/l	1.0				

The following prep procedures were performed:

Mercury

TRACE

RMJ 06/17/96 1200 86049 2 FGD 06/18/96 1530 86099 3

M = MethodMethod-Description M 1 **EPA 6010A** M 2 **EPA 7470** M 3 **EPA 3005**



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CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 20, 1996

Page 2 of 3

Sample ID

: SPORT 0074-1

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certification	ons
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151 WI - 999887790	WA - C223	PA - 68-485	WV - 235



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CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 20, 1996

Page 3 of 3

Sample ID

: SPORT 0074-1

GEL Laboratory Certifications

EPI Laboratory Certifications

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist



Meeting today's needs with a vision for tomorrow

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 20, 1996

Page 1 of 3

Sample ID Lab ID : SPORT 0074-2 : 9606278-02

Matrix
Date Collected
Date Received

: GroundH2O : 06/12/96

Priority
Collector

: 06/14/96 : Routine : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch	М
Metals Analysis						-				
Mercury	J	0.0190	0.0148	0.500	ug/i	1.0	RMJ 06/17/96	1653	86049	N
Silver	U	0.436	2.49	10.0	ug/l	1.0	NRM 06/19/96	0116	86099	1
Arsenic		94.9	1.86	10.0	ug/l	1.0				
Barium		31.9	0.0663	10.0	ug/l	1.0				
Beryllium	U	-0.0890	0.0114	5.00	ug/l	1.0				
Cadmium		5.64	0.0970	5.00	ug/l	1.0				
Chromium		92.2	0,596	10.0	ug/l	1.0				
Nickel		36.8	0.807	10.0	ug/l	1.0				
Lead		543	1.13	5.00	ug/l	1.0				
Antimony	J	3.35	0.958	10.0	ug/l	1.0				
Selenium	U	-0.266	1.43	5.00	ug/l	1.0				

The following prep procedures were performed:

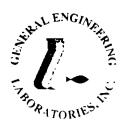
Mercury

TRACE

RMJ 06/17/96 1200 86049 2

FGD 06/18/96 1530 86099 3

M = Method	Method-Description	
M 1 M 2 M 3	EPA 6010A EPA 7470 EPA 3005	



Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 20, 1996

Page 2 of 3

Sample ID

: SPORT 0074-2

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

^{*} indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certification	ons	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514	
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175	
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417	
ME - SC012	MS - 10120	NY - 11502	RI - 138	
NC - 233	NY - 11501	SC - 10582	TN - 02934	
RI - 135	SC - 10120	UT - E-227	VA - 00111	
TN - 02934	UT - E-251	WA - C225	NJ - 79002	
VA - 00151	WA - C223	PA - 68-485	WV - 235	
WI - 999887790				



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CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 20, 1996

Page 3 of 3

Sample ID

: SPORT 0074-2

GEL Laboratory Certifications

EPI Laboratory Certifications

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist



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CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 1 of 3

Sample ID

Lab ID

: 9606278-03

: SPORT 0074-3

Matrix

: Misc.

Date Collected

: 06/12/96

Date Received

: 06/14/96

Priority

: Routine

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	ÐF	Analyst Date	Time	Batch	М
Metals Analysis										
Mercury	J	23.7	2.31	33.2	ug/kg	1.0	RMJ 06/18/96	1757	86114	N
Silver	U	81.2	125	500	ug/kg	1.0	WCC 06/19/96			-
Arsenic		1320	93.0	500	ug/kg	1.0				-
Barium		26000	3.32	500	ug/kg	1.0				
Beryllium	J	179	0.570	250	ug/kg	1.0				
Cadmium	J	187	4.85	250	ug/kg	1.0				
Chromium		11800	29.8	500	ug/kg	1.0				
Nickel		4980	40.4	500	ug/kg	1.0				
Lead		118000	56 <i>.</i> 5	250	ug/kg	1.0				
Antimony	J	411	47.9	500	ug/kg	1.0				
Selenium		280	71.5	250	ug/kg	1.0				

The following prep procedures were performed:

Mercury

TRACE

RMJ 06/18/96 1230 86114 2

DVW 06/18/96 1555 86101 3

M = Method	Method-Description	
M 1 M 2 M 3	EPA 6010A EPA 7471 EPA 3050	

P O Box 30712 • Charleston, SC 29417 • (803) 556-8171 • Fax (803) 766-1178 *9606278-03*



Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 2 of 3

Sample ID

: SPORT 0074-3

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certification	ons	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514	
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175	
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417	
ME - SC012	MS - 10120	NY - 11502	RI - 138	
NC - 233	NY - 11501	SC - 10582	TN - 02934	
RI - 135	SC - 10120	UT - E-227	VA - 00111	
TN - 02934	UT - E-251	WA - C225	NJ - 79002	
VA - 00151	WA - C223	PA - 68-485	WV - 235	
WI - 999887790				



Meeting today's needs with a vision for tomorrow.

CERTIFICATE OF ANALYSIS

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 21, 1996

Page 3 of 3

Sample ID

: SPORT 0074-3

GEL Laboratory Certifications

EPI Laboratory Certifications

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

APPENDIX D

WASTE DOCUMENTATION



South Carolina Department of Health and Environmental Control

(Form designed for use on elite [12-pitch] typewriter)

Bureau of Solid & Hazardous Waste Mgt 2600 Bull Street, Columbia, SC 29201 Phone (803) 734-5200 Emergency & Holidays (803)253-6488

PLEASE PRINT or TYPE

Form Approved OMB No 2050-0039 Expires 9-30-91

r	NIFORM HAZARDOUS 1	Generator's U.S. EPA I	D No.	Manifest Document No.		in the shaded areas is no
. 1	WASTE MANIFEST S	C 0 1 7 0 C	2,2,5.6 0,/	3 6 4	<u>+ 1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -</u>	Federal law, but is by State law
ľ	1:3 Generator's Name and Mailing Address	5 S		22.5	A. State Manifest Doci	ument Number
			aker Site Office	e, PO Box		
	190010, N. Ch	arleston, SC 2	9419-9010		B. State Generator's II	2
П	4 Generator's Phone (803) 74				C Chata Transaction	ID 10
Ιì	5 Transporter 1 Company Name		U.S. EPA ID Number 5, C D 9 8 7, 5.	7 4 6 4	C. State Transporter's	
H	taidlau Environmental Service		U.S. EPA ID Number	7, 4, 0 4		ID
П	7 Transporter 2 Company Name	8.			F. Transporter's Phone	
li	9 Designated Facility Name and Site Ad	Idroes 16	U.S. EPA ID Number			
H	Laidlaw Environmenta			Inc.	_	اً کا ایک به بودهای و درجانها کاملاد از به اهماند. درمها از میکودر به و در باید بهوم به اماریکای می
li	Rt 1 Box 255		,			American de la seguiria de la
H	Pinewood, South Caro	lina 29125 S	. C, D. O. 7 . O . 3 , 7	7,5,9,85		
	11 U.S DOT Description (including Proj			12. Containe		14 Unit 'I.' Waste Number
l				No. T	ype	Wt/Vol
l i	G a RQ, Hazardous Waste	Solid NOS	Q NA3077			D 0 0 8
	G RQ, Hazardous Waste : PG III (lead)	30114, 14.0.3.,	J, 1415077,	1		
IΝ	N La III (Iead)			0 0 1 C	M 2 0	Y
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١,	J. Additional Descriptions for Materials Li	sted Above		. ' '	. K Handles Codes	for Wastes Siller Above
	. Additional Descriptions for Materials El	SIGO ADOVE			ON-SITE INS	for Wastes Listed Above
	a PW - 0 1 3 4 3 -	4 1 1 2 C	-	-	S.C DEPT T	
į						- F.
1						- The second
	15 Special Handling Instructions and Add	ditional Information				is collection of information is estimated to rations 15 minutes for transporters and 10
!					minutes for treatment storage	and disposal facilities. This includes time hering data, and completing and reviewing
ł	WO# 216 575	_			the form Send comments i	egarding the burden estimate including surgen to Chief Information Policy Eranch
:	24 hour emergency cont		-	wford	Washington D.C. 20460 and	i Protection Agency 401 M S1 3 W to the Office of Information and Regulatory
	16 GENERATOR'S CERTIFICATION I her	(803	3) 743-9985			and Sudge: Washington D.C. 20503
•	packed, marked and labeled, and are in the laws of the State of South Carolina	all respects in proper con	dition for transport by highway	according to applications	scribed above by proper shi able international and nation	nal government regulations and
1	If I am a large quantity generator, I certify	that I have a program in F	slace to reduce the volume and	toxicity of waste cor	poratog to the george have	Catermines to no occomonically
Y	health and the environment, OR, if I am a	Small quantity generator (
	that is available to me and that I can affo	rd	nave made a good lawr enon k	Timminge my waste	generation and select the b	est waste management method
	Printed/Typed Name		Signature /		<u>-</u>	Month Day Year
	Charles F. STUTIS		Chula E.	Slate	/s	103131191
1年でるこのの	17 Transporter 1 Acknowledgement of R	eceipt of Materials				
22	Printed/Typed Name		Signature //	MA		Month Day Year
200	19/4 Rion Jank		// muon	Jail		133/197
Ĕ	18 Transporter 2 Acknowledgement of Re Printed/Typed Name	eceipt of Materials				
OUT - WIT	Name		Signature			Month Day Year
-	9 Discrepancy Indication Space			·		1 1 1
				.33	1740	
c i				a	fbs c	DS
Ĺ				b '	lbs_d	bs
+ [20. Facility Owner or Operator; CArtification	n of receipt of hazardous	materials covered by this n	nanifest event ac	noted in 4tem 10	
۲	Printed/Typed Name	C - C	Signature Signature	t Cept as		Month Day Year
- 1	1 11111	11 -	- \	(//	1 1/	



Printed/Typed Name

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200

Emergency & Holidays (803)253-6488

DET SER# 7092HHO (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No 2050-0039 Expires 9-30-91 PLEASE PRINT or TYPE ORM HAZARDOUS 1. Generator's U.S. EPA ID No. Information in the shaded areas is not required by Federal law, but is by State law. S C 0 1 7 0 0 2 2 5 6 WASTE MANIFEST A.-State Manifest Document Number 3. Generator's Name and Mailing Address The state of the s SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box B. State Generator's ID 190010, N. Charleston, SC 29419-9010 4 Generator's Phone (803) 743-9985 C. State Transporter's ID 6. U.S. EPA ID Number 5 Transporter 1 Company Name D. Transporter's Phone - 803-452-6060 LS' C D 9 8 7 5 7 4 6 4 7 <u>laidlaw Environmental Services(T6), Inc.</u> E. State Transporter's ID 8. U.S. EPA ID Number 7 Transporter 2 Company Name F. Transporter's Phone G. State Facility's ID 10. U.S. EPA ID Number 9 Designated Facility Name and Site Address ALC AND ADDRESS OF THE PARTY OF Laidlaw Environmental Services of South Carolina, Inc. H. Facility's Phone Rt 1 Box 255 (803) 452-5003 Pinewood. South Carolina 29125 | S | C | D | 0 | 7 | 0 | 3 | 7 | 5 | 9 | 8 | 5 .I. Waste Number 13. Total Quantity 14. Unit 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers No Type Wt/Vol والمؤاجه المالية 0 0 8 GE RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, ıΖE PG III (lead) 0 + 0 1 C - M Ā 0 wastes Listed Abo J. Additional Descriptions for Materials Listed Above ON-SITE INSPECTOR S.C DEPT OF HEALTH & ENVIRONMENTAL CONTROL d.! Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters and 10 15. Special Handling Instructions and Additional Information minutes for treatment storage and disposal facilities. This includes time ig instructions, gathering data, and completing and revi for revewing instructions, gathering data, and combleting and revewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M. St. S.W., Washington, D.C. 20460, and to the Office of Information and Regulary Affairs. Office of Management and Budget, Washington, D.C. 20503. W0# 24 hour emergency contact: Rick Nielson or Gary Crawford 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if a ma small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name CHARLES Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Day Year Sighature Month 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Day Year Month Discrepancy Indication Space 20. Facility Owner or Operator; Certification of receipt of hazardous materials proved by this manifest except as noted in Item 19.

Signaturé



A Form #700 Rev 9 88) Previous Editions are Obsolete (DHEC 1988 (Rev 5 89))

South Carolina Department of Health

Grand Environmental Control

DET SER # 7092 HH02

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays. (803)253-6488

PLEASE PRINT or TY	PF (Form designed	for use on elite [1	2-nitchi	typewr	nter	L ' Sefin	/ LApproved ON	B No. 201	50-0039 Expires 9-30-
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SOUTHDIVNAVFACENGCOM 190010, N. Charlésto			8, P	J 60.	*	2	Seherator's	60 State of	
4. Generator's Phone (803) 743–9985	ni, 30 23413—3	010						III NOW	
5. Transporter 1 Company Name	6. U.S. EPA	ID Number			_	C. Sta	e Transporter	s ID	277-199
Laidlaw Environmental Services(T6), In		9 8 7 5	7 4	6	4 7		nsporter's Pho		3 462-5060
7. Transporter 2 Company Name	8. U.S. EPA	ID Number				E_ Sta	te Transporter	s ID	
	1 .	<u> </u>				F. Tra	nsporter's Pho	né _	~ ** \$ ~**
9 Designated Facility Name and Site Address Laidlaw Environmental Servi Rt 1 Box 255	10 U.S. EPA ces of South 1		Inc.	•		7 7 7	e Facility's ID		- day free Against 1
Pin wood, South Carolina 29	125 S. C. D.	0.7 0 3	7 5	9 8	, 5		803) 4 52		A TOTAL OF THE STATE OF THE STA
11. U.S. DOT Description (including Proper Shipping			12	2. Cont		13	. Total Quanti		
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J. Additional Descriptions for Materials Listed Above	· - 5-4					K.	Handling Code	s for Was	stes Listed Above
a PW - 0 1 3 4 3 - 4 1 1	<u>2</u> c					-	ON-SITE INS	PECTO	₹ .
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24 hour emergency contact: Ri	ick Nielson or	Gary Cra	ufore	d		PM-22	3 U.S. Environmen	tal Protection	niet information Policy Branch n Agency 401 M St. 5 M
	(803) 743-	9985				Affairs	Office of Managem	ent and Budge	eof informa ion and Regulatori et: Washington: D.C. 20503
16. GENERATOR'S CERTIFICATION: I hereby declare it packed, marked, and labeled, and are in all respects the laws of the State of South Carolina.	in proper condition for tran	asport by highway	accordii	ng to ap	opicat	de intern	ational and nati	onal gover	nment regulations and
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20. Facility Owner or Operator: Certification of receipt	of hazardous materials				1	-4			
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Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

South Carolina Department of Health Cand Environm ntal Control

DET SER # 1092HH03

		Form designed for use on elite	[12-pitch] typewn	ter)	Form Approved OM	B No 205	0-0039 Expires 9-30-9
'INIFORM	HAZARDOUS 1. Generator's U.S. EF	PA ID No.	Manifest Document No				shaded areas is no
▲ WASTE	MANIFEST SC017-0	0 2 2 5 6 0 1	1317	8 '	required b	y Federal I	law, but is by State law
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	190010. N. Charleston. SC	29419-9010		8	State Generator's	D add	Y Committee
4 Generator's	s Phone (803) 743-9985			-			
	r 1 Company Name	6. U.S. EPA ID Number		C	. State Transporter	s ID ·	LANGE LONG
11	, ,	S C D 9 8 7 5	7 4 6 4	7 7	. Transporter's Pho	ne 803	3-452-5060
	2 Company Name	8. U.S EPA ID Number	# / <u>4 0 -</u>		. State Transporter		, 43E-0000
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	aw Environmental Services o	T South Carolina,	inc.		Frankrik Obaca	<u> </u>	- AND THE RESERVE
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Signature



EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

South Carolina Department of Health// and Environmental Control DET SER # 7093HH03

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS

Emergency & Holidays: (803)253-6488

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South Carolina Department of Health and Environmental Control DET SER # 7099 HHOT

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS

Emergency & Holidays: (803)253-6488

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

Form Approved OMB No. 2050-0039 Expires 9-30-91

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EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

South Carolina Department of Health

Cand Environmental Control

1340 DET SER # 7099 HH02

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

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FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS



South Carolina Department of Health and Environmental Control

DET SER NO. 7100 HHOL

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

Form Approved OMB No 2050-0039 Expires 9-30-91

(Form designed for use on elite [12-pitch] typewriter)

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FACILITY: DETACH & RETAIN THIS COPY FOR YOUR RECORDS



South Carolina D partment of Health and Environmental Control DET SER # 7141 HHO1

2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

Bureau of Solid & Hazardous Waste Mgt.

ALL COPIES PLEASE PRINT or TYPE

(Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

•	NIFORM HAZARDOUS 1. Generator's U.S. EPA ID No. WASTE MANIFEST S C 0 1 7 0 0 2 2 5 6 0 3 2 0 0 of 1 required by Federal law, but is by State law
	3. Generator's Name and Mailing Address SOUTHDIVNAVFACENGCOM. Caretaker Site Office. PO Box 190010, N. Charleston, SC 29419-9010
	4. Generator's Phone (803) 743-9985 6. U.S. EPA ID Number 6. U.S. EPA ID Number
	7. Transporter 2 Company Name 8. U.S. EPA ID Number
	9. Designated Facility Name and Site Address of Control 10. U.S. EPA ID Number
	Rt 1 Box 255 Pinewood, South Carolina 29125
	11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Quantity 14. Unit to the walk in the proper service service service services and including the services are services and including the services and including the services and including the services and including the services are services and including the servi
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	15. Special Handling Instructions and Additional Information Public reporting burden for this collection of information is estimated average 37 minutes for generators. 15 minutes for transporters, and 1 minutes for treatment storage and desposal facilities. This includes am for revewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including
	24 nour emergency contact: Rick Nielson or Gary Crawford Sweeting this burden. ac Chief, Information Policy Branch Policy Branch Policy Branch Policy Crawford Policy Branch Policy Bran
,	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations are the laws of the State of South Carolina. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.
	Printed/Typed Name of the Month Day of Year Signature Lulial S. Pull D. S. Z. 7, 9, 7
	17. Transporter 1 Acknowledgement of Receipt of Materials Signature Signature 18. Transporter 2 Acknowledgement of Receipt of Materials
	Printed/Typed Name Mouth - Day - Year Signature
	be designed by the color of the contract of the contract of the color
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19,8700 (Rev. 9/88), Previous Editions are Obsolete IDHEC 1988 (Rev. 5/89)

South Carolina Department of Health

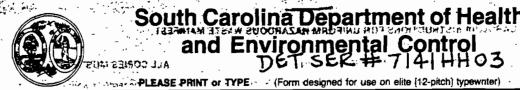
and Environmental Control
DET SER # 1141 HH02

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

Form Approved OMB No. 2050-0039 Expires 9-30-91 PLEASE PRINT or TYPE ... (Form designed for use on elite [12-pitch] typewriter) - . IFORM HAZARDOUS 1.1." Generator's U.S. EPA ID.No." 2. Page 1 Information in the shaded areas is not of 1. 5 S.C-0-1 7/0 0.2 2/5 6 0 required by Federal law, but is by State law. WASTE MANIFEST Generator's Name and Mailing Address SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010 A. Generator's Phone (against consolutions) 5. Transporter 1 Company Name 6. U.S. EPA ID Number -ortaldlav Environaantalisarvirosaffelt. Inc. 1994: Stockandies 8 17 8. U.S. EPA ID Number 7. Transporter 2 Company Name 1. Milmit 9. Designated Facility Name and Site Address 94 10. U.S. EPA ID Number """ "Haldlaw Environmental Services of South Carolina. Inc: Rt 1 Bbx 255 Pinewood, South Carolina 29125, , Sr.C. D.O.7, 0,3,7,5,9,8,5 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 13. Total Quantity 14. Unit 12. Containers Wt/Vol No. Type RQ, Hazardous Waste Solid, N.O.S. "97 NA3077; PG III (lead) 0, 0, 1 C, M 2,0 Y b PER HAMSON ٠٦; EPA 097 JUNE 271 DE 1271 SC THE THEORY TO CHOOSE OF A MAN PUT IS A STATE OF THE 15. Special Handling Instructions and Additional Information 37 minutes for generators, 15 minutes for transports for treatment storage and disposal facilities una 21/12/ The form Send comments regarding the burden estimate, wicludin suggestions for reducing this burden, so Chief, Information Policy Branch PM-223 U.S. Environmental Protection Agency, 401 M.S.L. S.W. Washington, D.C. 20460, and to the Office of Information and Regulator Affairs, Office of Management and Budget, Washington, D.C. 20503 24 hour memergency contact: Rick Nielson or Gary Crawford 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consign packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the taws of the State of South Carolina If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to the which minimizes the present and future threat to human health and the environment, OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is made and the environment. that is available to me and that I can afford. Printed/Typed Name अगडार अग्नेश श्रान्त रह Signature of Day Year MICHARD G. NIELSON ansporter 1 Acknowledgement of Receipt of Materials 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed, Name Signature Month .. Day Year Discrepancy Indication Space 4 AUM 10, 85, 15, 1946 क्ष दान्त्र देवर्कराविकार के बार केरा है। वह बेरा इंड्रायर के नार : and displaced property of the angle is vancement than MOZE ATE TO A LOTTE MERCHANIST IS FOR HAIN TO A PARTY HAINS OF THE WIND TO THE 20. Facility Owner or Operator, Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name A Signature CALIFORNIA Signature Month Day Year,



EPA Form 6700 (Rev: 9/88) Previous Editions are Ob

th Carolina Department of Health and Environmental Control DET SEC # 7|4|HH03 ALL CORIES IN

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

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Form Approved OMB No. 2050-0039 Expires 9-30-91

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South Carolina Departm nt of Health and Environmental Control
DET SER # 1141 HHO4

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Form Approved OMB No. 2050-0039 Expires-9-30-91

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South Carolina Department of Health and Environmental Control SEL # 714.8 HHDI PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

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Form 6700 (Rev. 9/66) Previous Editions are Obsolete (DHEC 1988 (Rev. 5/89))

South Carolina Departm nt of Health

and Environmental Control

DET : 5 ER # 7148 HH03

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

Form Approved OMB No. 2050-0039 Expires 9-30-91

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PLEASE PRINT or TYPE

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete [DHEC 1988 (Rev. 5/89)]

(Form designed for use on elite [12-pttch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

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South Carolina Departm nt of H alth JERRY I BROWNLEE Bureau of Solid & Hazardous Wester Mgt

2600 Bu	ll Street,	, Columbia	a, SC 2	9201 🖔
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South Carolina Departm n	of Halth	Bureau of Solid & Hazz	
and Environm ntal Co	ontrol	⁷ 2600 Bull Street, Colur Phone: (803) 734-520	20
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6. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are full		Office of Management and Budget,	
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South Carolina Department of Health and Environmental Control

JERRY I. BROWNLEE Bureau of Solid & Hazardous Waste Mgt.

2600 Bull Street, Columbia, SC 29201

Day

Phone: (803) 734-5200

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South Carolina Departm nt of Health

and Environmental Control OET SER # 7153 HHO) PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) 2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200 Emergency & Holidays: (803)253-6488

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EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete IDHEC

South Carolina Department of Health Bureau of Solid & Hazardous Waste Mgt. 2500 Buff Street, Columbia, SC 29201 and Environmental Control Phone: (803) 734-5200. SEC 47167 HHO2 3 Emergency & Holidaya: (803)253-6488

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191	03) 743 9985	<i>i</i> '	Affairs, Office of Management	and Budget, Washington, D.C. 20503
 GENERATOR'S CERTIFICATION: I hereby declare that the con packed, marked, and labeled, and are in all respects in proper c 	ntents of this consignment are full condition for transport by highway	lly and accurately desc y according to applicab	ribed above by proper shi le international and nation	pping name and are classified all government requiations and
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South Carolina Department of Health and Environm ntal Control

DET SER# 7279 HHON

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

(Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91 PLEASE PRINT or TYPE 2. Page 1 ORM HAZARDOUS 1. Generator's U.S. EPA ID No. information in the shaded areas is not required by Federal law, but is by State law. WASTE MANIFEST 3. Generator's Name and Mailing Address COURTHDIVNAMI AFFMOLOM. Laretaker bite unlike. In Box 130010. A. Climelaston, SC 23419 9010 4. Generator's Phone (한영국) 기계로 파악하다 6. U.S. EPA ID Number 5. Transporter 1 Company Name នោធ្រាក់ស្រ andlau favrionmentet arvicerifit. 7. Transporter 2 Company Name 8. U.S. EPA ID Number 9. Designated Facility Name and Site Address 10. U.S. EPA ID Number stillar toyk commental services of 'auth Carolina. Inc. " I live " 5 न्य ना मन्या १।६६ राति । ते । ति । ते । त्राप्ता <mark>जन्म कर्मा करा । ते प्राप्त</mark> 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Quantity Wt/Val G r.zardous Masic Colli, R.O.D., 9. NASO//. b. * 4 3 di 15. Special Handling Instructions and Additional Information everage: 37 minutes for generators, 15 minu minutes for treatment success, suffering data, and comp for renewing instructions, gathering data, and comp the form. Send comments regarding the burden for reducing this burden, to Chief, Inform i into community contact: Rick Mielson or Gary Crawford 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat a human practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat an illument health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature r-Month- Day-⊍. RICHARIS 17. Transporter 1 Acknowledgement of Receipt of Materials 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature crepancy Indication Space 20. Facility Owner or Operator; Certification of receipt of hazardous materiels covered by this manifest except as noted in Item 19

EPA Form 8700 (Rev. 9/88) Previous Editions are Obsolete IDHEC 1988 (Rev. 5/89)]

South Carolina Departm nt of Health and Environmental Control DET SER 7281 HHOI

(Form designed for use on elite [12-pitch] typewriter)

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

Form Approved OMB No. 2050-0039 Expires 9-30-91

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South Carolina Departm nt of Health

and Environm ntal Control

DET SEP # 7283 14401

Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200 Emergency & Holidays: (803)253-6488

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South Carolina Departm nt of Health and Environmental Control

DET SER# 7279 HHDZ

Bureau of Solid & Hazardous Waste Mot 2600 Bull Street, Columbia, SC 29201

Phone: (803) 734-5200

Emergency & Holidays: - (803)253-6488

Month Day Year

(Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91 PLEASE PRINT OF TYPE 2. Page 1 FORM HAZARDOUS 1. Generator's U.S. EPA ID No. information in the shaded areas is not required by Federal law, but is by State law. WASTE MANIFEST SID BOT TO BOTH IS B 3. Generator's Name and Mailing Address SOUTHDIVNAVFACENGOUM, Laretaker Site Office. PO Rox 190010, N. Charleston, 30,29419-9010. 4. Generator's Phone (以内含 _) 143-9985 5. Transporter 1 Company Name 6. U.S. EPA ID Number midiau Environmental Services (16). Inc. 19 | 0 | 0 | 9 | 9 | 7 | 5 | 7 | 4 | <u>6 | 4 |</u> 7. Transporter 2 Company Name 8. U.S. EPA ID Number 9. Designated Facility Name and Site Address 10. U.S. EPA ID Number taidlaw Environmental Services of South Carolina. Inc. it 1 Box 255 one wood Court Carolina 20125 [9] 8 8 17 10 13 17 18 12. Containers 13. Total Quantity 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Wt/Vol No. GE U. mazardous Waste Solid, N.O.S., 3, NA30/7. . (basi) Ill u h O 10, **3**,4 Special Handling Instructions and Additional Information s for treatment storage and de es. This inclu wing instructions, gathering data, and complete. Send comments regarding the burden aone for reducing this burden, to Chief, Information hour -mergency contact: Rick Nielson or Gary Crawford 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the program of the program o practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Signature 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature unteTo DMMG W 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day - Year Signature LE El L. Krienbergalderhaus screpancy Indication Space and the transfer of the same o של ישיבו ובישול ובי איני וייים ווייים 20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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South Carolina D partment of Health and Environm ntal Control

Environm ntal Control DET SER # 7283HH02 Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201 Phone: (902) 734 5200

Phone: (803) 734-5200

Emergency & Holidays: (803)253-6488

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South Carolina Department of Health

and Environmental Control

DET SER 7311HHOI

Bureau of Solid & Hazardous Waste Mot. 2600 Bull Street, Columbia, SC 29201

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PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewnter) Form Approved OMB No. 2050-0039 Expires 9-30-91 FORM HAZARDOUS 1. Generator's U.S. EPA ID No. 2. Page 1 Information in the shaded areas is not Document No required by Federal law, but is by State law WASTE MANIFEST 50017000225601 3. Generator's Name and Mailing Address SOUTHDIVNAVFACENGCOM. Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010. 4. Generator's Phone (803) 743-9985 6. U.S. EPA ID Number 5. Transporter 1 Company Name 1S | C| D| 9| 8| 7 | 5|7 | 4 | 6|4 | 7 aidlau Environmental Services (T6). Inc. 8, U.S. EPA ID Number 7. Transporter 2 Company Name 10. U.S. EPA ID Number 9. Designated Facility Name and Site Address aidlaw Environmental Services of South Carolina. Inc. dt 1 Box 255 -ingwood, South Carolina 29125 | S | C | D | 0 | 7 | 0 B | 7 | 5 B 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 14 Unit Type u. Hazardous Waste Solid, N.O.S., 9. NA3077. 4 III (lead) b. 3.00 0 R ¥252 15. Special Handling Instructions and Additional Information table recenting burden for this collection of information is estilors. 15 m ng instructions, gathering di 14 hour emergency contact: Rick Nielson or Gary Crawford on, D.C. 20460, and to the Office of Infor 16. GENERAT R'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the taws of the State of South Carolina If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and **fillume threat** to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best wasta management method that Is a validable to me and that I are a filled. that is available to me and that I can afford. Signature KICHARD 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Day & Year The second of the property of the second of iscrepancy Indication Space TEMPORE OF THE PROPERTY. lbs. d. 20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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South Carolina Departm nt of Health and Environmental Control

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Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201 Phone: (803) 734-5200

Day

Month

Year

Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91 Manifest IFORM HAZARDOUS 1. Generator's U.S. EPA ID No. 2. Page 1 Information in the shaded areas is not required by Federal law, but is by State law. WASTE MANIFEST est Documen 3. Generator's Name and Mailing Address SOUTHDIVNAVEACENGEOM, Laretaker wite Office, 10 Box 190010. M. Charleston. US 29419-9010 4. Generator's Phone (号03) 743-9985 5. Transporter 1 Company Name O'Transporter's Phone 151 : 0 9 0 7 5 7 4 0 4 7 sidlaw invironmental Services(16), Inc. 7. Transporter 2 Company Name 8. U.S. EPA ID Number 10. U.S. EPA ID Number 9. Designated Facility Name and Site Address aidiaw Environmental Services of South Carolina, Inc. . 1 dox .35 Depoint, Weith Carolina (*125) [3]0(19)0(7)0(8)7 [5]8 (8)8 8031 452-5000 11 U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Quantity 14 Unit li No. Type a. roza, nous Waste Solid. M.U.S., 3. MA3077. b. C. J. Additional Descriptions for Materials Listed Above K. Handling Codes for W No. of the last of . d. 18.LS 15. Special Handling Instructions and Additional Information Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing ZZZ780 the form Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, information Policy Branch PM-223, U.S. Environmental Protection Agency, 401 M St. S.W. - mergency contact: Tick Mielson or Gary Crawtord n. D.C. 20460, and to the Office of Infor 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature Year RICHMAN 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Day Year Signature 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Dav Year Discrepancy Indication Space lbs. d. 20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.



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TRAZOPORTER

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Printed/Typed Name

South Carolina Departm nt of Health and Environmental Control

Emergency & Holidays: (803)253-6488

Month

Day

Year

Phone: (803) 734-5200

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Bureau of Solid & Hazardous Waste Mgt. 2600 Bull Street, Columbia, SC 29201

Form Approved OMB No. 2050-0039 Expires 9-30-91 (Form designed for use on elite [12-pitch] typewriter) ORM HAZARDOUS 1. Generator's U.S. EPA ID No. Page 1 Information in the shaded areas is not required by Federal law, but is by State law. VASTE MANIFEST 000 1 7 9 0 2 12 5 6 3. Generator's Name and Mailing Address SOUTHDIVNAVEACENGOOM, Laretaker Site office, Pu sox 190010, N. Charleston, 36 29419-9010 Generator's Phone (803) 743-9485 6. U.S. EPA ID Number 5. Transporter 1 Company Name aidlaw Environmental Services(18) राज्या वा या स्था 8. U.S. EPA ID Number 7. Transporter 2 Company Name 10. U.S. EPA ID Number 9. Designated Facility Name and Site Address Laidlaw Environmental Services of South Carolina, Enc. Rt 1 Box 255 Propuned South Carolina 19725 | 101010101111013 17 15 h 11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Quantity 14. Unit Wt/Vol No. Type G AQ, Hazardous waste boild, N.J.S., 9, NA30/7. E PG III (lead) 0 c. HE Handling Codes for Wastes Listed Above: er er veret đ. No. Public reporting burden for this collection of information is estimated and are stated as a superstance of the state of th 15. Special Handling Instructions and Additional Information ng instructions, gathering data, and comrm. Send comments regarding the burden estima stons for reducing this burden, to Chief, Information P WO# Suggestions for recursions PM-223, U.S. Environ U.S. Environmental Protection Agency, 401 M St. S.W. on, D.C. 20480, and to the Office of Information and Regulator 24 hour emergency contact: Rick Nielson or Gary Grawford nt and Budget, Washington, D.C. 20503. 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature 2 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: Year Signature Month, 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Day Month Year Signature screpancy Indication Space lbs. lbs. 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

APPENDIX E

MISCELLANEOUS DOCUMENTATION

DEPARTMENT OF THE NAVY



SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN PORTSMOUTH, VIRGINIA, DETACHMENT ENVIRONMENTAL CHARLESTON 1899 NORTH HOBSON AVENUE, BUILDING 30 NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:

Ser 488

Mr. Paul Bergstrand South Carolina Department of Health & Environmental Control Bureau of Solid and Hazardous Waste Management 2600 Bull Street Columbia, SC 29201

Subj: ABANDONMENT OF MONITORING WELL 605GW002

Ref: (a) Approved Interim/Stabilization Measure (IM) Work Plan for Solid Waste Management Unit (SWMU) 5, Area of Concern (AOC) 605 & AOC 621, Naval Base Charleston, Charleston, SC

(b) South Carolina Well Standards and Regulations R. 61-71

Dear Mr. Bergstrand,

Abandonment of monitoring well 605GW002 was identified in paragraph 4.1 of reference (a). Abandonment of this well was determined to be necessary to facilitate excavation of soil at the well location as part of the IM process. This well is located adjacent to concrete pad 1278 (AOC 605) at the Charleston Naval Complex. Fourth quarter sampling of this well is complete.

Please be informed that on March 14, 1997 this well was abandoned in place by Environmental Detachment Charleston (DET) personnel. This was accomplished by filling the 2 inch PVC well casing with cement grout in accordance with the requirements of reference (b) and under the supervision of Mr. Chuck Stutz of Southern Division Naval Facilities Engineering Command, Caretaker Site Office. Mr. Stutz is a well driller licensed by the state of South Carolina.

Questions and/or comments regarding abandonment of this well should be addressed to Dan Morse at (803) 743-6777 extension 218.

E. R. Dearhart

Distribution: EPA (J. Bassett) SCDHEC (J. Tapia)

SDIV (Code 1876)

Section 3C Rev 0

Revision Date: 22 Apr 96

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APPENDIX A PH CALIBRATION & ANALYSIS FORM

OPERATION CHECKLIST

pH meter serial number: 5/v 25865

1. No structural damage observed on meter/probe
2. Probe filled with 3N KCL yes
3. Probe rinsed with reagent grade water
4. Buffer solutions within expiration date
5. Check for LOW BATTERY prompt on meter

CALIBRATION

pH of reagent grade (De-lonized) water
Slope (SLP) reading of pH meter (percent)

6,22
99,4%

TRUE VALUE	OBSERVED	TEMP
AT 25°C	VALUE	°C

pH 4 BUFFER	NA	WA	NA
pH 7 BUFFER	7,00	6.99	23.1
PH 10 BUFFER	10,00	10,03	23,1

SAMPLE ANALYSIS

LAB NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE LOCATION	pH 1 MEASURE	pH 2 MEASURE	pH AVERAGE
97FL0003-1	3-5-97	1100	SWAU-SPRAINLINE	7,87	7,87_	7.87
	· 					
						
						
	·	<u>_</u>			<u> </u>	
						

REMARKS	i: Non	/e					
ANALYST:	· Jua	0 S. M. G	lean fr.	DATE	: <u>3-5-</u> 97	TIME:	1145
REVIEWED	BY: [Ulam R	Hier	A. DATE	:: 3/5/97	TIME:	1146
LAB DIREC	CTOR/SAME	PLE COORE	INATOR 7	7			

APPENDIX F PHOTOGRAPHS

SUMMARY OF PHOTOGRAPHS

- **PHOTO F-1:** Very early into the excavation and viewed towards the southwest from behind existing monitoring well number 018GW001. Building 1435 is at left and the small excavation behing the well is at soil sample location 018SB004 which was identified during RFI sampling to contain elevated concentrations of lead.
- **PHOTO F-2:** Also very early into the excavation and viewed towards the northwest accross the end of Building 1435. Abandoned monitoring well number 605GW002 is located in approximately the center of the photo with the elevated battery wrecking pad in the background.
- PHOTO F-3: Close-up photo of abandoned monitoring well number 605GW002.
- **PHOTO F-4:** Ongoing excavation of soil from underneath the battery wrecking pad and pad 1278. A Bobcat "mini excavator" was used to remove the soil from under the pad and the soil was then transferred to the track-hoe bucket to be placed in the roll-off containers seen in the background.
- **PHOTO F-5:** Near the end of the excavation work and viewed towards the southwest from on top of existing monitoring well number 018GW001. The battery crane, which is missing in the previous photo, can be seen in the right background reinstalled on its foundation.
- **PHOTO F-6:** Viewed towards the southwest and parallel with the pad, the extent of excavation from under pad 1278 can be seen here.
- **PHOTO F-7:** Viewed nearly due east from on top of pad 1278, the extent of excavation from around existing monitoring well number 018GW001 can be seen here.
- **PHOTO F-8:** Viewed towards the northeast from the paved area on the southwest end of the site, this photo reflects the condition of the site at the completion of all soil excavation.
- **PHOTO F-9:** Viewed towards the southwest from behind existing monitoring well number 018GW001, this photo reflects the completed SWMU 5 site after backfilling.
- **PHOTO F-10:** Viewed towards the northeast from the paved area on the southwest end of the site, this photo also reflects the completed SWMU 5 site after backfilling with the Cooper River in the background.



РНОТО F-1



PHOTO F-2



РНОТО F-3



РНОТО F-4



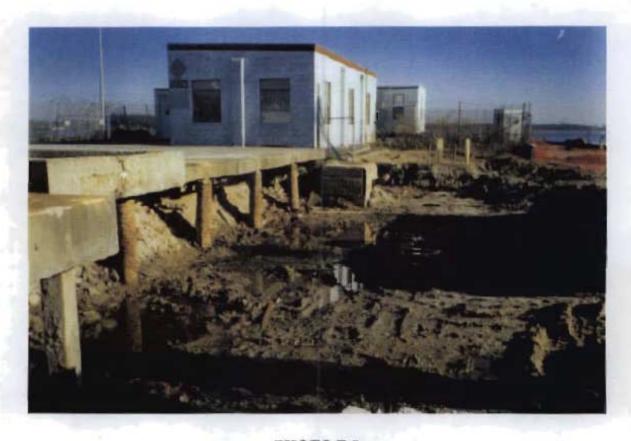
РНОТО F-5



РНОТО F-6



PHOTO F-7



РНОТО F-8



РНОТО F-9



PHOTO F-10